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ARCHITECTURE

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RESIDENTIAL DESIGN

DISCOVER THE PROJECTS AND PRODUCTS TRANSFORMING THE SECTOR

3D PRINTED BUILDING

THE TECHNOLOGY BEHIND
THIS METHOD CONTINUES
TO PUSH THE BOUNDARIES

FREEHAUS INTERVIEW

TOM BELL AND JONATHAN HAGOS DISCUSS
SERVING THEIR COMMUNITIES
WITH CONSCIOUS DESIGN

BALANCING ACT

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PUBLISHING TEAM

Media One Communications Ltd
6 Swan Court, Forder Way, Hampton,
Peterborough, Cambridgeshire, PE7 8GX
Tel: 01733 385300

EDITOR

REBEKAH KILLIGREW
07736 945716
rebekah.killigrew@mediaone.co.uk

SENIOR DESIGNER

RICHARD HALLAM
richard.hallam@mediaone.co.uk

PUBLISHER & CEO

R J NISBET
robert@mediaone.co.uk

ADVERTISING MANAGER

HOLLY DENNIS
07736 945689
holly.dennis@mediaone.co.uk

CREDIT CONTROL MANAGER

CAROLE TODD
01733 385302
carole.todd@mediaone.co.uk

ADMINISTRATION & SUBSCRIPTIONS

+44 (0) 1733 385300
info@mediaone.co.uk

Email: ac@mediaone.co.uk
Web: www.architecturemagazine.co.uk
Twitter: @ARCHmagazineUK
Instagram: @architecturemagazineuk

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WELCOME



As we enter the winter months and the nights draw in, our focus turns to our homes to provide extra comfort, safety and warmth. In this issue, we explore these elements, celebrating residential design and taking a look at cladding, roofing and insulation products that are essential for elevating a project. In an article penned by Dipa Joshi, Partner & Residential Lead at Fletcher Priest Architects, she talks about designing residential schemes that are secure, safe and healthy, whilst also being

inclusive and aesthetically pleasing; and Matthias Hollwich, Founder of HWKN Architecture, discusses how designing homes that appeal and cater to all generations can positively impact the conversation about ageing.

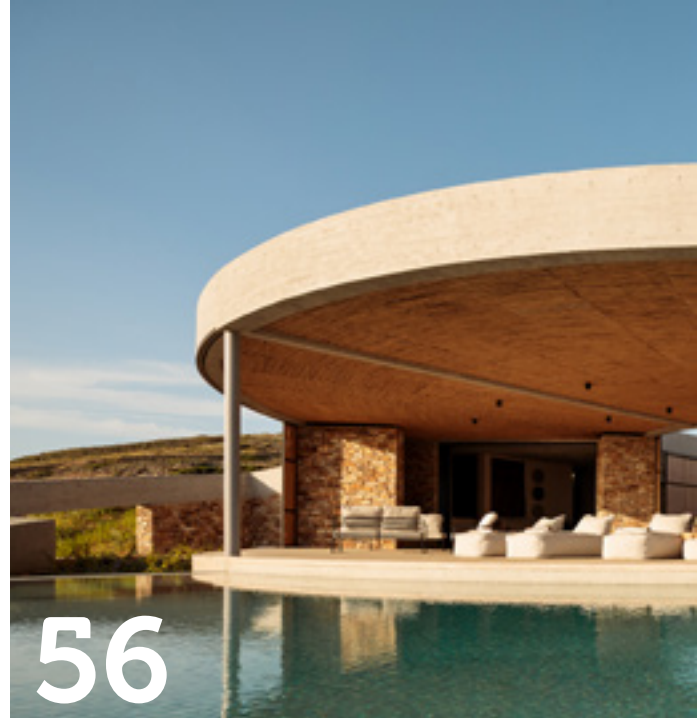
We visit a variety of innovative residential projects, from locations in London and the South Downs to warmer climates in Argentina and Greece; though situated in different places, the outcome of each project is the same: a home that reflects its inhabitants, positively impacts their wellbeing, and takes a sustainable, energy-saving approach.

In our main interview feature we meet Tom Bell and Jonathan Hagos, Founders of the progressive architecture practice Freehaus, a studio that passionately believes architecture has a positive role to play in society. And in our Question Time feature we delve into the topic of 3D printed building, exploring the exciting array of possibilities it offers such as mass/fast production and sustainable and affordable options. We ask a panel of experts to discuss how 3D printed building can help housing emergencies whilst still creating designed residences.

Enjoy the issue.

Rebekah Killigrew
Editor

rebekah.killigrew@mediaone.co.uk



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DIARY DATES

LIGHT 22

22-23 NOVEMBER 2022

BUSINESS DESIGN CENTRE, LONDON

LIGHT 2022 is the ideal destination to source the latest lighting products, connect with peers and meet with the best established and emerging lighting brands. With more than 100 leading brands showcasing their latest products, the event will also host the latest instalment of the hugely popular [d] arc thoughts talks programme featuring 30 speakers.

www.lightexpo.london

WORLD ARCHITECTURE FESTIVAL

30 NOVEMBER - 2 DECEMBER 2022
LISBON

Now in its 15th year, World Architecture Festival is the largest global architecture event that combines awards, seminars and networking. At the heart of the festival sits a unique live-judged awards programme. Gain inspiration for your next project by watching live pitches from your peers as they compete in the WAF and INSIDE awards. Hear from more than 50 international speakers across two stages as they discuss the most critical challenges you face as an architect.

www.worldarchitecturefestival.com

SPATEX 2023

31 JANUARY - 2 FEBRUARY 2023
COVENTRY BUILDING SOCIETY ARENA

The UK's annual water leisure exhibition, SPATEX 2023 brings life to water and water to life! From spas, wellness suites, swimming pools and steam rooms to saunas, water features, enclosures and all their ancillary equipment – SPATEX is the one and only chance in the year to view the exciting world of water leisure under the convenience of one roof.

www.spatex.co.uk

SURFACE DESIGN 2023

7-9 FEBRUARY 2023
BUSINESS DESIGN CENTRE, LONDON

Surface Design Show 2022, was described by some as 'the best yet.' We are creating a 2023 show that will highlight all that is new and innovative within surface design; it will feature exceptional and inspired materials and will communicate on the trends and issues facing architects and designers.

www surfacedesignshow.com



(left to right) Mike Morgan, James Spencer, Vic Johnson, Matt Spinks, Rich Coutts, Becky Bradley and Andi Clews

RECORD-BREAKING YEAR

Johnson Design Partnership (JDP) has seen appointments rise significantly by 30% over the last twelve months and currently has more than 130 live contracts under management as clients explore inventive design and a more personal service. Architects at the Station Lane firm have also identified its ability to deliver complex work that peers often turn away and its recent Paragraph 70 approval that was granted without the need for appeal – one of the first in the UK to get through. JDP, which has also been behind the redevelopment of Bishop Percy's House in Bridgnorth,

has taken on three new staff to cope with demand, including an experienced architect and two senior technicians who bring with them significant expertise in key markets. The practice, which now employs nine people at its Bridgnorth office, offers a complete project management service from feasibility work and planning to detailed design, project monitoring and contract administration. It has recently invested in the latest 3D design software and management systems, as well as embarking on a social media campaign to showcase its vast array of successful projects.

PARTNERSHIP TO EXPAND SUSTAINABILITY NETWORK

OSG Architecture have partnered with London-based property development finance brokerage Mackenzie Byrne to bring the Sustainable Development Network (SDN) to Kent and the South East. The network was set up in response to feedback from SME developers who cited a lack of support as one of the obstacles preventing them from making the transition to sustainable development. The network hopes to bridge that gap through learning, discussion and connections. To date, two successful events have been delivered in London with a third taking place this month in Kent. The aim is to help reduce carbon emissions in the housebuilding industry by providing a programme of presentations on sustainability for developers, lenders, and professionals. At the same time, SDN meetings provide a space in which sustainable collaborations between members can be launched. OSG Director Dan Town says, "With sustainability being such an important subject in the construction industry, our decision to collaborate with Mackenzie Byrne to support and grow the SDN was simple. The vision for the SDN aligns with OSG's aspirations of sustainable architecture and design. The insight and collaboration with market

leaders through the network, together with the keynote speakers aims to drive the subject of sustainability to the forefront of all decisions and choices by our clients and contacts." SDN events are free to attend and membership can be applied for by emailing joshua@mackenziebyrne.co.uk.



Sustainable Development Network (SDN) breakfast meeting in London.



RIOS London will be led by Paul Westwood, Design Director, Architect (left) pictured with Josh Jenje, Project Designer (right) | Photo Credit - RIOS.

DESIGN COLLECTIVE OPENS LONDON OFFICE

Widely recognized as a pioneer in multidisciplinary design, RIOS announced the opening of its European office as part of the firm's widening international expansion strategy. The extension of RIOS London into the European market is rooted in the firm's desire to expand its worldview through a global practice. It is motivated by the market's interest in project types where RIOS has award-winning work, including life sciences, landscape, creative content production spaces, and more. Paul Westwood joined RIOS as a Design Director and will lead the RIOS London office. As an award-winning architect

with more than 15 years of experience across international projects, Paul brings an audacious vision of future cities and a portfolio of rich design work. Founded in Los Angeles, RIOS is renowned for its skill and design excellence across architecture, landscape, urban planning, interior architecture, experiential, product, and graphic design. RIOS London will work directly with the L.A. office to service current projects, new commissions, and pending ventures while infusing RIOS values, design processes, and principles into the British market and across Europe. RIOS' portfolio of global projects is diverse

across commercial, civic, hospitality, institutional and residential. Recent projects by RIOS include content production and entertainment spaces such as Spotify's L.A. Content Campus and Echelon Studios, life science spaces including the world-class cancer research and treatment institute, the Lawrence J. Ellison Institute for Transformative Medicine, landscape architecture including Palm Springs Downtown Park and 1 Hotel West Hollywood, and commercial adaptive reuse work including ROW DTLA. The RIOS London office is located at 68-80 Hanbury Street, London, E1 5JL. www.rios.com

HAT-TRICK OF NEW APPOINTMENTS

Leeds based architecture practice, Brewster Bye, has made three new appointments. Jordon Wilkinson joins the company as a part 2 architectural assistant. Sarah Bradshaw has been recruited as a part 1 architectural assistant and Hassan Jawid has been appointed as a junior technologist. Jordon completed Sheffield Hallam University's architecture degree before graduating this summer from Manchester School of Architecture with a Master of Architecture with merit. He has also worked at a York architecture firm, where he helped design residential developments, ranging from 30 to 200 units. After graduating from Robert Gordon University in Aberdeen, Hassan has spent the last 12 months at a Bradford architecture practice, where he worked on

both commercial and residential projects. This involved submitting planning applications, producing building regulations packages, and creating drawings using Auto CAD and Revit. Sarah becomes Brewster Bye's fifth recruit in the last five years, to join from the University of Huddersfield. She graduated with a BA (Hons) Architecture RIBA part 1 degree and was president of the University's Architecture Society, as well as winning several awards in recent years. These include being named as one of 'Yorkshire's Women In Property' and an academic award from the West Yorkshire Society of Architects. Brewster Bye currently employs a team of 21 based in Headingley and plans to recruit further this year. Image caption: (left to right) Hassan Jawid, Sarah Bradshaw and Jordon Wilkinson who have all joined Brewster Bye.



(left to right) Hassan Jawid, Sarah Bradshaw and Jordon Wilkinson who have all joined Brewster Bye.

The Royal Institute of British Architects (RIBA) is a global professional membership body that serves its members and society in order to deliver better buildings and places, stronger communities and a sustainable environment.

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CALL FOR EVIDENCE FROM THE INDUSTRY

The coalition developing the UK's Net Zero Carbon Buildings Standard (NZCBS), has launched a call for evidence. The cross-industry team, of which the Royal Institute of British Architects (RIBA) is a member, is calling on practitioners from across the UK built environment industry to supply operational energy and embodied carbon performance data for their buildings. The evidence base will help to inform and guide the development of the Standard - a single agreed definition and methodology for the industry to determine what constitutes a net zero carbon building.

Firstly, the NZCBS coalition is seeking operational energy data for buildings - specifically in-use consumption data from the best performing existing buildings, and modelled performance data for buildings in design or construction. This data will enable the NZCBS development team to understand what today's benchmark for energy performance is, and what current and future best practice might look like.

Secondly the NZCBS team is seeking embodied carbon data from both new construction and retrofit projects. This will enable the NZCBS development team to set out benchmarks for embodied carbon emitted in the construction process of different building types across the UK. Participants are invited to submit data via the Built Environment Carbon Database (BECD) at www.becd.co.uk/entity-section. The deadline for submitting data is 16th December 2022. Those with operational energy and embodied carbon performance data to share are encouraged to review the call for evidence guide, available on the project website (www.nzcbbuildings.co.uk) with more detail on the process for supplying data.



Dr Valerie Vaughan-Dick MBE © Grainge Photography

NEW CHIEF EXECUTIVE ANNOUNCED

Dr Valerie Vaughan-Dick MBE has been announced as the new Chief Executive of the Royal Institute of British Architects (RIBA). Valerie has had an extensive career in transformation, strategic development and delivery. Currently Chief Operating Officer at the Royal College of General Practitioners, she has previously held senior leadership positions at the Ministry of Justice, the Department for Transport and the National Audit Office, as well as Board-level roles at a wide range of charities and trusts. Valerie will take up the role in January 2023 and take forward our Biennial Action Plan 2022-23.

RIBA Board Chair, Jack Pringle, said: "I am delighted we have appointed Valerie as Chief Executive. Valerie's successful track record in financial transformation and experience in forming international and professional partnerships will prove invaluable as we continue to transform RIBA and deliver our

ambitious plans in support of members – and all those passionate about architecture – wherever they are based in the world." Valerie Vaughan-Dick said: "I am delighted to be joining RIBA at such an exciting time in its development and to being part of the transition to an even more effective business, where sustainability is top of the agenda. In this post-pandemic and financially challenging era, the industry needs an agile and dynamic membership body to provide leadership and support on the issues that matter most to the profession and the public. I look forward to working with the Board, Council and the expert staff team to help deliver RIBA's ambitious plans and ensure that RIBA members are appropriately represented, and their contributions widely recognised." Valerie will join RIBA on 9 January 2023, taking over from interim CEOs Adrian Dobson and Pamela Harding.

IN THE PIPELINE



SPORTING QUARTER DEVELOPMENT

Liverpool architecture firm KKA has received approval from Bristol City Council for its work on the 3,626-seater Sports and Convention Centre next door to Ashton Gate Stadium. The Sporting Quarter - developed by Bristol Sport - will provide a new home for the Bristol Flyers, a hotel, conferencing facilities, a multi-storey car park, and retail space alongside commercial and residential space. Detailed work will start immediately on the next stage of this project.

The first phase of the Sporting Quarter development will be the Sports and Convention Centre alongside the hotel, which hopes to be on site in late Summer 2023. In a meeting which lasted just over two hours,

in front of a full public gallery, the Sporting Quarter application and the Longmoor Village plan for 510 homes were debated with members voting in favour for both of the twinned applications.

The Sporting Quarter represents KKA's latest involvement in helping to shape the sporting architecture of Bristol, having previously designed the redevelopment of Ashton Gate Stadium and the Robins High Performance Centre. KKA's work on the Ashton Gate redevelopment saw the design, construction and fit-out of new stands to replace the existing Wedlock and Williams Stands and extensive conversion works to the existing Dolman Stand and Concourse.

FLAGSHIP R&D FACILITY

Sheffield-based architectural practice, Race Cottam Associates (RCA) has been appointed by Smith+Nephew to design the firm's brand new R&D and manufacturing facility for Advanced Wound Management near Hull. Global medical technology business, Smith+Nephew, which was founded in Hull in 1856, confirmed it would be relocating to a 25-acre site at Melton West Business Park, approximately eight miles from their current site at Daltry Street. The firm will invest more than £80m building the new facility, which will create a world class R&D, manufacturing and flexible office environment. RCA has been appointed as full project architect, following a competitive tender process. The vision for the circa 30,000m² new building is to create a world-class working environment capable of delivering next generation products that will improve the standard of care for the NHS and customers across the globe. It will encourage innovation and collaboration, accommodate key manufacturing spaces and advanced laboratories which meet stringent cleanliness standards, and be future proof in terms of flexibility of space. The new site is expected to open in 2024.



CARBON NEUTRAL NEW BUILD



Featherstone Young has received planning permission for a large new family home on a sloping site overlooking the coast and within Hove's leafy and architecturally eclectic Tongdean Conservation Area (TCA). It is located on Tongdean Avenue, just a few doors away from both the recently completed Farshid Moussavi house and Turner Works' award winning Hove House.

The house design takes a heavily landscaped approach, which responds to the character of the conservation area. The design will deliver a series of living spaces linking to outside 'rooms', each with their own character and orientation - a woodland garden, water garden, gravel garden, a fernery and a grassy earth bund. These spaces provide for different activities - quiet reflection, play, dining and

bathing - and also support a diversity of species-rich planting and wildlife. Aiming to be near carbon neutral, it uses a host of passive sustainable design features to minimise energy use and has a timber frame construction with limecrete ground slab to ensure a very low embodied carbon, compared to traditional masonry and concrete slab construction. External and internal finishes will use sustainably sourced timber and rammed earth, which will further reduce the use of gypsum and cement-based products. Green roofs will be planted with drought resistant indigenous plants to enhance biodiversity and integrate into the landscaping strategy.

An earth bund across the front of the site reuses excavated ground and is planted with grassland meadow and small trees, providing screening and aiding drainage. A ramped causeway with a rammed earth wall cuts through the bund forming a new pathway to the front door and bringing people closer to the planting and landscape.



IAAC 3D Print Building Render

BUILDING SOLUTIONS OF THE 3D KIND

As **3D printed building** continues to push the boundaries of design, we explore the solutions and challenges it offers the industry

The development and technology behind 3D printed building is becoming more innovative and successful as each new project is completed, with global teams of experts pushing the boundaries of design. The architecture, engineering, and construction industry have taken on the challenge of coming up with solutions to support the housing crisis whilst continuing to create designs that inspire and ensure better buildings for the future. As 3D printed building offers an exciting array of possibilities, such as mass/fast production and sustainable and affordable options, we asked a panel of industry experts: How can 3D printed building help housing emergencies whilst still creating design-led residences?

EDOUARD CABAY, ALEXANDRE DUBOR & YARA TAYOUN, IAAC

By 2050, 68% of the world population is projected to live in urban areas. Meanwhile, the global aim in reducing global carbon dioxide (CO₂) emissions to net zero by 2050 presents a great challenge to the construction industry, today responsible for 40% of those emissions from construction material manufacturing to building processes. With the recent emergence of a multitude of 3D printed building solutions, the application of additive manufacturing in the construction sector demonstrates further possibilities for more optimised, sustainable, and customised constructions

for our buildings and cities. (A. Dubor et al, 2018). In this context, IAAC continues its research towards 3D printing architecture with an aim to develop realistic architectural solutions that use additive manufacturing to provide sustainable, affordable and community-based processes of housing construction. On-site continuous printing from locally sourced materials presents a great advantage in reducing the carbon footprint of buildings, by saving on material transportation as well as material processing, as the earth is extracted from the construction site and used in its raw

EDOUARD CABAY, ALEXANDRE DUBOR & YARA TAYOUN, IAAC

Eduard Cabay is an architect based in Barcelona where he runs his firm Appareil and research project Machinic Protocols developing projects that relate design strategies with new technologies. He has been faculty and research director at IAAC since 2011 where he currently directs 3DPA, an earth 3d printing program that develops novel 1:1 building solutions for housing purposes. Alexandre Dubor is an architect and researcher combining new technologies in an attempt to improve how we build and live in our cities. Trained as architect and engineer, he has experience in architectural offices, software

development, research and teaching. Since 2012, he has been working at IAAC where he now lead the AAG fabrication team, direct the postgraduate in 3D Printing Architecture (3DPA) and the Master in Robotics and Advanced Construction (MRAC). Yara Tayoun is an architect and researcher specialised in the digital and technology-driven transition of circular processes in architecture and design. She is currently the academic coordinator of 3DPA, the Postgraduate in 3D Printing Architecture at the Institute of Advanced Architecture of Catalonia (IAAC). www.iaac.net



state upon collection. The material goes through a natural process of sifting in order to achieve the desired particle scale ready for printing. Relying on on-site printing techniques and natural resources ensures the circularity of the construction process, as no chemical modification is needed to recycle the building once it reaches its end of life, hence avoiding any contamination. The printed earth layers are deposited back on site, where the material was sourced from, guaranteeing a closed loop of circularity. TOVA, a recently completed project with local earthen materials in the natural park of Collseolla, in the outskirts of Barcelona, certifies the potentials of 3d printing with sustainable materials, in response to the current climate challenges and housing emergencies. The result is a weatherproof prototype constructed with 100% natural and locally sourced material. Despite its small scale (9 sqm), TOVA contains all the technical details and features that a larger house would require: an integrated timber roof structure, a passive ventilation system, door and window embedded framing systems, insulation, services, integrated furniture.. It therefore serves to demonstrate the possibility of the construction of a larger domestic building. TOVA is the first 3D printed earthen construction in Spain, spanning a construction of 7 weeks (4 weeks of printing) exclusively with materials from a 50m radius. The building is composed of a stone foundation, 3D printed earth walls, a timber roof structure and wooden carpentry. The prototype is printed using 3D Wasp's modular crane. The building design is

based on a precise analysis of the climate condition of the Mediterranean. The volume is compact to protect from the cold in winter, yet expandable for the other three seasons, considering semi exterior spaces as part of the living space. For this purpose, the wall section, composed of 6 earth surfaces and a network of cavities that either contain air, or insulation, was calculated to prevent heat loss in the winter, while protecting from solar radiations in summer.

The design is researched and tested via digital and physical simulations in an effort to reduce construction footprints, monitor the reduction of CO₂, and take into account the Life Cycle Assessment of the building components.

This prototype has rendered possible and riskless the application of 3d printed earthen construction in an adapted environment, merging both material knowledge and craftsmanship with cutting-edge optimised design technology.

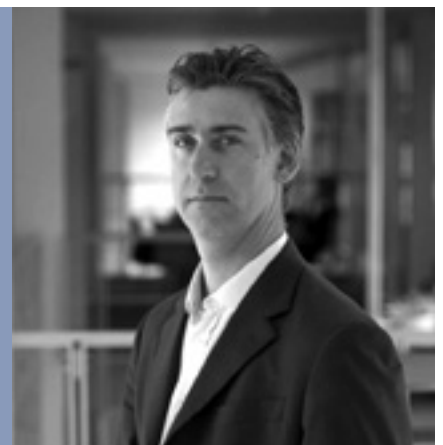
ALVISE SIMONDETTI, GLOBAL LEADER, ARUP

Alvise leads the global Emergent Digital Practice programme at Arup, which identifies and analyses major trends impacting the future of design of the built environment. The programme has previously explored designing with data, Artificial Intelligence and Machine Learning, with Data Driven Methods of Construction, and with smart operations. A graduate from Design and Computation Course at MIT, Alvise believe that successful design cannot be separated from tools. Alvise supervised PhDs in the Computer Science Departments at Imperial College London and University College London. www.arup.com

ALVISE SIMONDETTI, ARUP

The decades-long housing crisis in the UK shows no sign of abating. Instead, the need for affordable housing is growing ever greater, with rental prices and mortgage rates exacerbating the issues in the sector during a cost of living crisis. Current demand is outstripping supply as the government scrambles to meet its housebuilding target of 300,000 homes a year by the mid-2020s within its decarbonization commitments. The construction sector needs to be equipped to respond, without compromising on quality, design, or sustainability. And it must do so despite setbacks in labour shortages and the rising

Photo courtesy of Arup



Question Time

cost of materials, meaning innovative digital solutions will be essential. 3D printed building, or "additive manufacturing", makes it possible to build bespoke, high performance physical components layer by layer directly on-site using 3D printers on movable bases. Arup has been a core part of the development of this technology. Since 2014, it has been pushing the boundaries of designing with 3D printing to ensure it will one day be ready to enter the realm of real-world, hard-hat construction. Arup is also currently sponsoring novel research at UCL Robotics in Autonomous Mobile 3D Printing of Large-Scale Trajectories. (https://www.researchgate.net/publication/362091956_Autonomous-Mobile_3D_Printing_of_Large-Scale_Trajectories).

A key milestone came in 2018 when Arup, alongside CLS Architects, unveiled a temporary 3D printed house in central Milan. It was the first of its kind in the EU, due to its robotic manipulator being mounted on a movable base. The whole house was printed on-site by CyBe Construction (<https://cybe.eu/>) portable robot, taking a total of just 48 cumulative hours. Built "live" over 10 days in the centre of Milan under pressure to meet the opening of international Salone del Mobile, while continuously adapting the digital model to the feedback from site. Furthermore, it was taken apart and reassembled elsewhere. Such agility dramatically increased the efficiency of the process while remaining commercially viable. Both points are likely to be key criteria in solving the UK's housing emergency. The possibilities for mass customisation are also invaluable. The shape and design can be optimised to ensure each model fits the demands of specific locations. 3D printed housing could also solve other longstanding issues associated with the construction industry, which is widely regarded as one of the world's biggest users of resources. This technology has the potential to slash the carbon footprint of the sector, by drastically reducing material consumption and site waste. Furthermore, it allows components to be re-used at the end of a building's life, rather than ending up as landfill. In summary, 3D printing provides a unique opportunity to rapidly test and discover new and improved ways to redefine the built environment. As a result, the industry must not be afraid to embrace digital design workflows in all stages of the building process. New technologies combined with creative thinking have a fundamental role to play in addressing today's construction challenges, transforming how we build residences in the UK.



Photo courtesy: PERI

HENRIK LUND-NIELSEN, FOUNDER & GENERAL MANAGER, COBOD INTERNATIONAL

Henrik is the Founder & General Manager of COBOD International. He has been a manager and CEO in larger construction companies as well as startup in recycling construction materials. He is recognized as one of the 10 most influential executives within the entire 3D printing industry. www.cobod.com



HENRIK LUND-NIELSEN, COBOD INTERNATIONAL

COBOD is working tirelessly to contribute to a significant transformation of the global construction industry and a better tomorrow. 3D printing is one of the world's most promising technologies as 3D printed homes can combine design, functionality, low costs, and environmental benefits as this building method reduces the CO2 footprint compared to conventional construction. I see 3D printing technology as a real game-changer in construction as it can address housing emergencies but also be part of bringing new architecture to life that would otherwise not have been possible by conventional brick and mortar methods. One prominent example of this is the BOD building. It is Europe's first 3D printed building and located in Copenhagen, Denmark. We 3D printed the BOD in 2017 as a testament to how the technology of 3D construction printing can disrupt the conventional construction methods of today. Even though the BOD is less than 50 square meters (538 sq ft) in size, it is still large enough to demonstrate some of the economic and architectural benefits of using 3D printing technology for construction. To emphasize the design freedom of 3D printing, the BOD does not have a single straight wall. Here it is worth noting that 3D printing allows for curved wall designs without adding any complexity or further costs. Europe's first 3D printed office extension recently opened in Hausleit in Austria. This project is a result of a collaboration between the construction technology group STRABAG and the scaffolding and

formwork manufacturer and 3D concrete printing pioneer PERI. The building is a 125 m2 office extension to an existing building in Hausleit. 3D printing in general allows design freedom compared to classic concrete construction, such as architecturally appealing rounded shapes. This office building in Austria impresses with its unusual architectural form and the structures of the printed concrete are recognizable as a design element on the facade, which gives the building a special appearance in addition to the cloverleaf shape.

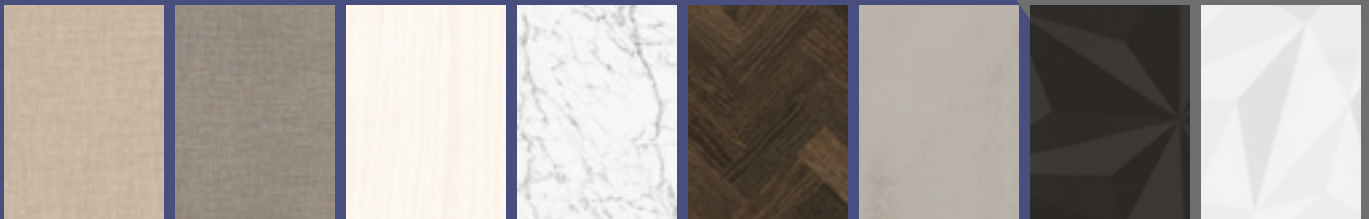
Many of our partners also use the COBOD International 3D construction printers to address the global housing crisis. 14Trees in Kenya and Malawi is building the first affordable housing communities and schools of the future with our 3D construction printer. 14Trees achieved tremendous results applying COBOD's technology resulting in reduced cost, time, and materials compared to traditional methods. Furthermore, the building has an environmental footprint of 50% compared to the conventional building methods in Africa.

Sustainability is an important factor to this new automated construction method. 3D construction printing allows for sourcing locally to reduce transportation, minimizing waste on-site, and constructing buildings that last. Through our latest innovation, with our partner CEMEX, we reduced the cement share by 30% compared with industry standards of 3D construction printing. As such COBOD International sees 3D printed buildings playing an important part in remedying the housing emergencies whilst still creating design-led residences.

Fantasy living

Finish shown: Concrete Oxide

A range of finishes that nature cannot provide, fantasy brings textures and colours that create unique outcomes.



Contact us for more information.

Century House, Premier Way, Lowfields Business Park,
Elland, West Yorkshire, HX5 9HF

T: +44 (0) 1484 658341 E: info@decorativepanels.co.uk
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BLACK TIMBER HOUSE

BY HAPA ARCHITECTS

Black Timber House was designed by Sussex architects HAPA with their Director Stuart Paine leading the vision to create a striking eco house that would stand the test of time, using local and sustainable materials whilst using passive ways to reduce energy consumption.

This new build house sits on a 0.25 acre site, situated within the conservation area of the South Downs National Park. Black Timber House is found at the end of a quiet country lane sheltered under large ash trees with views of the rolling Downs and sweeping wildflower meadows. It nurtures a feeling of well-being, and a calm of rural life. With large picture frame windows that offer views of the landscape, the rolling Downs and in-between.

The form of the house is created by the stacking of two volumes creating interesting overhangs and roof spaces. The veranda and window reveals are clad in natural wood while the rest of the exterior is clad in a striking charred black timber, supplied by IRO Timber. The charred English larch cladding boards create a particularly impressive aesthetic using the Yakisugi method of charring wood, this leaves the boards

with a highly pronounced grain and greater colour depth. The charring method is also known to give greater resistance to moss, algae and insects. The material pallet has been carefully curated to patina and weather into its surroundings, using deep grain charred English larch, complimented with natural copper guttering and dark slate roofs to create a particularly impressive aesthetic.

At ground floor, the plan is a simple box containing the heart of the home, a large openplan kitchen/living/dining room. This is accessed from a generous entrance hallway, and provides a grand opening to the rear landscape. This floor is planted into the landscape, and emphasised by the black timber cladding, which is laid horizontally at ground floor, with narrower boards and vertically at first floor with wider boards. The kitchen is made from surplus engineered oak flooring, cut and formed to create the cupboard and drawer fronts. The worktop is a natural patinaed zinc and works beautifully amongst the other natural products used throughout the building. At the first floor, in a simple gable form are the private bedrooms, reaching up into the canopies, a point





Project

heightened by the switch to vertical timber cladding.

The plan creates a covered entrance and provides a raised open veranda to enjoy the rear garden and fields beyond.

The vaulted ceilings in the bedrooms create impressive double height spaces, and a wrap-over window over the staircase adds some fantastic natural light, and drama as the occupants climb up towards the canopy space.

The building performs at a very high thermal and energy efficiency standard and is able to generate its own power with the help of PV panels. The focus was to reduce the energy demands of a new build house.

This has been achieved by using a high efficiency air source heat pump coupled with low temperature under floor heating and high thermal mass heat sink floors. As well as PV and mechanical ventilation with heat recovery (MVRH) the house employs passive solar design, high levels of insulation and air tightness measures to make for an A rated house (A rated EPC).

www.hapa-architects.co.uk

IG: @hapa_architects

Photography by Jim Stephenson

www.clickclickjim.com



SUPPLIER TEAM:

Contractor: **Brian Huntly Builders**

Structural Engineer: **BLB Chartered Engineers**

Timber Cladding: **IRO Timber**

Rooflight: **Glazing Vision**

Polished Concrete Floor: **Lazenby**

Timber Floor: **Turner Carpentry**

Glazing: **Rational**

Joinery: **Forest Joinery**

Kitchen: **Turner Carpentry**



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As people turn to colour to elicit different moods and to energise their buildings, IRO's collection of colours evokes emotion and excitement, embracing creativity over dull tones and faded palettes.



HAPA Architects
charcoal IRO external cladding
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LET'S **TORC** DESIGN

Torc Pots create handmade artisan designs in natural materials, working with architects and designers to support them across commercial and residential projects

Torc Pots produce their designs from a studio in the British Isles, creating beautiful pots and planters to enhance any space. Working alongside a talented team of artisans, this family run business specialises in textures, scale and bespoke design.

Torc products are shaped by hand until they take on their own unique form - no two pots are ever quite the same. The bespoke design side of the business is continually growing and Torc welcome the opportunity to be involved at any stage of the design process, working across commercial and residential spaces.

Alongside a talented team of artisans, Torc is a family business run by Hylton and Nicole Hugo. We caught up with Nicole to find out about their products and how they work to support architects and designers on projects.

CAN YOU TELL US ABOUT THE DESIGN BACKGROUND AND HISTORY OF TORC POTS?

Hylton is the lead potter at Torc, and he has a background in residential property development with 25 years experience; he founded the brand after making and developing pots to enhance the outdoor spaces of the properties he was working on - he had found it impossible to source large scale planters that were aesthetically pleasing. Interest grew in the planters he was making, and so Torc was born. Hylton has a vast knowledge of engineering,

architecture and development because of his property background, so he has a wealth of knowledge to provide to architects and designers as to what will or won't work. The team is made up of family members as well as other artisans who hand sculpt all of the products. The products are all sculpted either on a table or large scale potter's wheels and therefore we are not restricted by using the "mould" method. This gives us huge scope to create any size or shape our clients desire from pebble seats, water features, outdoor furniture for public realm, fire pits and planters.

WHAT HAS BEEN YOUR MOST SUCCESSFUL MILESTONE TO DATE?

Our involvement at Chelsea Flower Show across the board supporting various designers and winning Silver Gilt on our own garden in collaboration with another company.



HOW DO YOU MANAGE WORKING GLOBALLY?

We send our products across the world from the middle east to the west coast of America and everything is crated and managed by various transport companies alongside zoom meetings with designers internationally. Some of the designers make a visit to our studio if the order is particularly large and a brainstorming session is needed.

HOW DO YOU TACKLE ISSUES SURROUNDING SUSTAINABILITY IN THE DESIGN INDUSTRY IN YOUR OWN STUDIO AND PROCESSES?

Currently 60% of the materials used in our pots are recycled. Our wash facility is run on recycled water so we are using the same water over and over. We have minimal waste material as we always have a wheel available to use up the last mixture of the day - we do not "fire" our products using high energy kilns but instead we "cure" them slowly through hydration. Ultimately the material we use is incredibly durable and should last a lifetime - the very definition of sustainability!

WHAT ARE YOU FOCUSED ON FOR 2023?

Creating new shapes and introducing new products to the range generally, alongside opening a new showroom in the UK so that we are more accessible to designers and architects.

www.torc pots.com | IG: @torc_pots

TORCPOTS



@torc_pots



www.torc_pots.com





Magpie House East London

MAGPIE HOUSE

BY DGN STUDIO

DGN Studio has demonstrated adaptability to an ever-evolving brief at Magpie House, resulting in a bright, material-first refurbishment and extension of an East London terraced home for a textile designer and digital designer.

The clients, keen collectors of mid-century furniture with extensive knowledge in self-build projects, approached DGN Studio to open and extend the ground floor of their north-facing home. The brief quickly grew to encompass refurbishing the upper floor, requiring DGN Studio to execute a cohesive renovation throughout while incorporating many repurposed

fittings and furniture from the clients' vintage collection. Working first on the principles of spatial planning and natural light, DGN Studio redesigned the existing ground floor plan to encompass a more cohesive and seamless sequence for living, dining, and cooking. DGN Studio reworked the traditional configuration of smaller rooms, opening the centre of the plan to create a welcoming living space on entrance, which leads down into the new kitchen and dining space, which extends 3 metres into the rear garden. Connection to the garden was central to the brief, met with the addition of

Project



a cast concrete and dark stained oak window seat at the rear elevation, the glazed panels of which can be entirely opened to offer a seamless flow from dining area to garden. Outside, the rear façade is designed to offer depth and a degree of privacy. It has an expressive, galvanised steel structure with dark stained timber window trims, chosen to tie neatly in with the existing black-stained garden room. Slim steel posts break up the dark elevation, which is topped by a thick lead parapet that projects to create a small overhang, sheltering the bench below from rain. The courtyard is a low maintenance space featuring gravel overlaid with reclaimed steel mesh panels, and brewer's malting kiln tiles salvaged and repurposed by the client as part of a careful narrative of old and new. This stitching and weaving of different

material components and objects inherited from the client continues throughout the home. In the new extension, DGN Studio treated reclaimed London stock bricks with a mineral paint for a softer interior. Set three steps down from the entrance level, the new extension takes advantage of increased ceiling heights and overhead glazing.

The requirement for an economic and functional kitchen is accommodated by large joinery pieces for plentiful storage, all designed to work around items that were already in the client's possession such as the oven and hob. Stainless steel counters and splashback act as the main material of contrast against ash cupboards and open shelving. These extend to a larger, stainless-steel unit that conceals the extract at high level, as well as providing ample space for preparation to service large gatherings. An ash wood cut out in the wall connects the kitchen to the sitting room at the front of the home, elongating site lines throughout the ground floor.

Upstairs, the floor plan is rearranged to accommodate two bedrooms and a family bathroom in lieu of the previous three bedroom arrangement, which can still accommodate a third small bedroom in future if required. The new bathroom is enclosed in an oak-framed reeded glass screen with slatted timbers above the door to allow light to permeate into the top floor. Microcement floors are taken up to the walls, with the interior designed around the clients' collected items including the loo, large sink and bath.

In lieu of the former, narrow corridor outside the bathroom, a bright, open landing can now accommodate a sofa or study, going beyond mere circulation space. A wood floor reclaimed from the structural and supporting timbers of historic barns throughout the North-East & Mid-Atlantic regions elevates the feel of it as a transitory space to the bedrooms where minimal alterations were made.

The project was facilitated by a long-term relationship between the client and contractor, as well as a sensitive attitude to reusing found objects. DGN Studio rethought the traditional design process in favour of a more intuitive, flexible approach, testing new ways of working in a more agile and responsive manner to site processes, making Magpie house a successful collage of many hands.

www.dgnstudio.co.uk | IG: @d_g_n_s
Photography by Tim Crocker



www.stone-age.co.uk

gary@stone-age.co.uk

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London SW6 4HH
Tel: +44 (0)203 411 2689

Stone Age, Unit 3,
Hookstone Park
Harrogate HG2 7DB
Tel: +44 (0)142 359 5144

LUTRON TAKE THE SPOTLIGHT

Lutron's latest event brought together UK residential design pioneers to experience the power of light at a luxury home open doors event

Early November, Lutron Electronics, leader in architectural lighting and shading solutions, hosted an exclusive event for top architects, interior designers, and lighting designers in London's luxury residential sector.

This event was a continuation of Lutron's mission to nurture the UK's design industry, and thus building a community of design excellence. Guests came together to explore the power of light in action within the luxury home in Kensington, enhanced by Lutron's state-of-the-art lighting and shading control solutions. These included Lutron's Alisse wall controls – an elegant and versatile solution, transforming the atmosphere of this luxury house at the touch of button.

Bringing together leading names in the UK luxury residential sector, the event was hosted in partnership with Studio Indigo, a prestigious, UK-based interior design and architecture firm. Held at the stunning Kensington VI, a model example of the studio's approach to technology-infused design, attendees also gained insight from high-end construction experts Seacon, award-winning home-automation leaders and Lutron-approved installer Cornflake,

and LDI, one of the world's most innovative lighting designers.

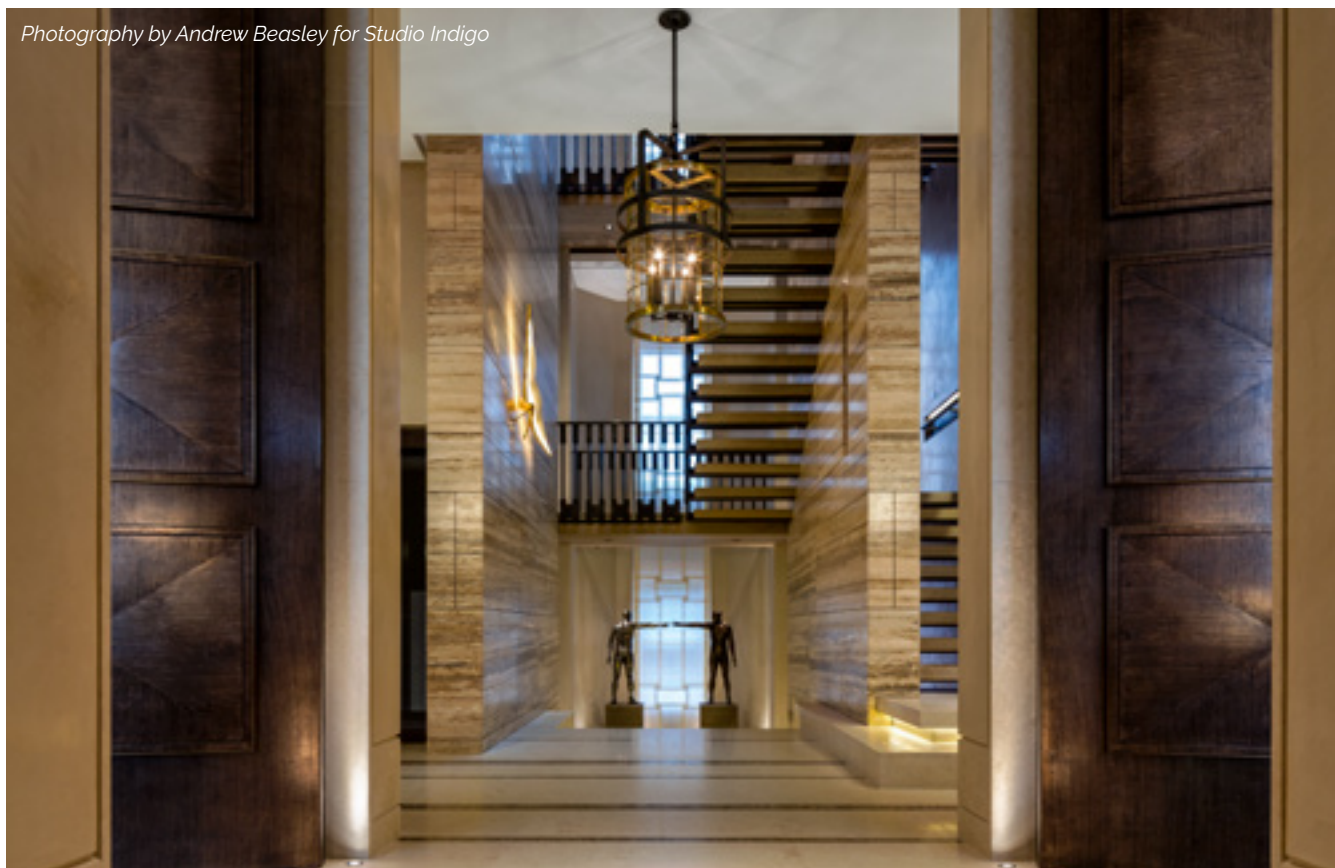
Part of its ongoing commitment to providing experiences that spark creativity and empower innovation, this latest event follows Lutron's series of Prismatic experiential and immersive showcases. Designers and architects in London, Manchester, Paris, Madrid, and Milan had the opportunity to experience the transformation light brings to the built environment. Offering RIBA and BILD-approved Continued Professional Development (CPD) opportunities, Lutron provides a host of opportunities for designers to build on their knowledge of the latest in lighting design, including topics such as Transforming Space with Light and Living in a Material World.

Reflecting on the exclusive event, Kiana Pourrahimi, UK Sales Director for Residential Products at Lutron, commented: "We are constantly seeking ways to bring the very best of the design community together to share creative approaches and are delighted with the response we've received through our Luxury House Open Doors event. This unconventional event provided a fantastic

opportunity for professionals to gain a unique insider's view of one of the finest homes in London, to share their approach to residential design and to explore why lighting and shading is such a fundamental part of any home. This meeting of minds demonstrated the transformative potential of innovative lighting control in today's best residential projects. We look forward to expanding our creative community further, with the help of our inspiring partners." Creatives seeking inspiration can also visit Lutron's impeccably designed London Experience Centre. Showcasing the best in lighting and shading control systems for commercial and residential environments, it features unique lighting and blind control solutions, harnessing Lutron innovations to accent décor, create specific moods, improve productivity, and promote energy saving. The Lutron Experience Centre is available to explore alongside Lutron specialists and for private tours with clients.

**www.lutron.com/luxury/uk/en
euroexperience@lutron.com
 IG: @lutroneurope**

Photography by Andrew Beasley for Studio Indigo





SUSTAINABLE DESIGN

Quooker offers the ultimate kitchen appliance for a variety of clients and projects

In the kitchen we want our appliances to work hard for us, delivering convenience, safety, sustainability and other unparalleled benefits. When it comes to your kitchen tap, Quooker has you covered.

As the original and only true 100-degree boiling water tap brand on the market, Quooker leads the way when it comes to innovative technology and design. Founded in 1970, Henri Peteri's innovative concept of a boiling water tap has grown into a kitchen essential for millions of households worldwide. Quooker taps make kitchen life and culinary chores remarkably easy. For the bustling household or sophisticated hosting hub, for the passionate foody or mother in a rush, for those looking to save time and money or those looking to make their kitchens greener, Quooker provides the tap that does it all.

Quooker is inherently green, providing a more sustainable alternative to a traditional kettle. The average kettle is responsible for using 2,200 watts to boil 1.7 litres of water. Often used multiple times throughout the day, this kitchen appliance expends huge amounts of energy. Comparatively, Quooker taps use very little electricity. Thanks to its advanced tank technology, it only takes 10 watts to keep water at 110°C. Users can enjoy instant boiling water, alongside reduced energy bills. Quooker taps only boil the exact amount of water needed, whether for a single cup of tea or a large pot. Unlike other kitchen mixers where water heats up gradually, Quooker's COMBI tank ensures a far quicker delivery of hot water when needed, limiting water wasted. Safety is also at the forefront of Quooker's design. Look to its in-built

safety mechanisms to prevent accidental use, red light signals to alert users of water modes, cool-touch spout casing and spray technologies that deliver aerated flows rather than a steady stream. As Quooker taps are static objects, they cannot be tipped or spilt, whilst delivering precision pouring. Quooker is a sound investment for a secure, safe and stylish kitchen. Thanks to its CUBE accessory, Quooker taps also now offer sparkling water. With the average UK household using a staggering 360 single-use plastic bottles per year, the CUBE offers a far more sustainable solution - an accessory that can be fitted onto any existing Quooker tap, the CUBE helps ensure more sustainable consumption.

www.quooker.co.uk | IG: @quookeruk



MECA HOUSE BY ATELIER MATIAS MOSQUERA

MeCa House is a habitation experiment that revolves around sustenance; it best represents the homeowners' lifestyle and their true self.

The food cycle is fundamental to the genesis of this project, and this is how Argentinian architecture firm Atelier Matias Mosquera represented it spatially: located in its centre, lies the heart of the house, a big kitchen materialized as a large counter-top, where all vital activities

flow from. It is a meeting point, where the cooking, nurturing and sharing takes place. In spite of being in the middle of the house, the kitchen is surrounded by light, vegetation and food. To its south there is a pond, refreshing during the summer, but it also links the heart with blossoming aromatic flora. To the east, lies the ample orchard, purposely located close to the cooking area. To the north is where the Garden - Living room - kitchen axis is consolidated.

It's remarkable how the heart of the house, while being in the geographic centre, still gives the impression of being on the outside. The interior / exterior limits are blurred by the architectural elements, such as the floor to ceiling windows that disappear behind the concrete walls. These support the upper floor volume, where the private dimension takes place, floating amongst the ash's tree tops and once again, de-materializing the boundary that separates the outside from the inside.





The exteriors are flooded with carefully curated houseplants, thus creating a special ambiance. This is also replicated on top of the house, as a culmination of the concept. One of the main notions for the garden was to preserve the previously existing Ash trees. According to mythology and popular beliefs, these trees have the power of allowing the energy to flow back and forth from the earth. Moreover, they are long lasting, which makes them into a perfect paragon of the struggle for life. On the ground floor, visuals are prolonged by the scenery, and connection to the outside is constant, despite of being sited in a residential area. The planes which the user looks into and connects to, are well thought through. Furthermore, where visual protection is needed, filters and thicker patches are added, still allowing air and light to come through them in every case. The result is a simultaneously opened and closed space. Conceived to be environmentally efficient, all of its spaces are naturally ventilated and illuminated, with eaves that act as a barrier during the summer, and which allow the sun to come through during the winter. The house is shut towards the south, but it opens up towards the north. The ventilation and lighting fluxes are essential to MeCa, and there is where materiality takes a leading role. The project is composed by a noble material palette: concrete on the ground floor and a charred wood volume on the upper floor (using the Japanese ancient

technique Shou Sugi Ban). Their selection and composition isn't by chance, but well thought out. For instance, the concrete structure on the ground level allows for spatial amplitude, essential for the visual expansion from the heart of the house. Furthermore, burnt wood is not only insect repellent, water and fireproof, but it provides the perfect natural frame to enclose the visuals, with a monolithic frame. In the evening, the charcoaled wood ceiling dark tone is heightened as it merges outwards with the night sky. These elements provide, along with exterior natural sunlight, a powerful but serene lighting on the ground floor. Its' juxtaposition between the darkness of the ceiling, encourages a calm, diaphanous illumination which translates onto the user experience, freeing tensions, and thus contributing to a general wellness feeling. On the private Upper Floor area, amid the ash tree tops, you can feel the scent of the kiri-wood covered walls: They also contribute to the warmth and lighting that reigns between the bedrooms and resting areas. Finally, if you climb all the way to the top of the house, you'll find a true Urban Oasis, bursting with diverse vegetation. The rooftop is visually entangled with the ash's tree tops, creating a unique sensation. MeCa is an interactive house, not because its plagued with top notch technology, but because of what takes place on its outside: a rich, biodiverse world where there's

always something going on. Caterpillars turning into butterflies, which fly amongst the flowers and swirl around insects, bees feeding between the shrubbery. The orchard, with its seasonal crops, the water cycle that moves and reflows: from rain to an irrigation system, from pool to natural bio filter and vice versa, they're all an infinite loop of natural sequences. We can see the modern influence of architects such as Le Corbusier, Kahn, amongst other greats, in the clean cuts and functionality of the design. However, the house also reveals the potential and contemporaneity that comes from constructive experimentation, the reinterpretation of the ways to inhabiting based on nutrition, and the consciousness of this whole process. In this game of tradition, reconstruction and metamorphosis, which embodies the circle of life itself, is where MeCa's true richness lies.

www.matiasmosquera.com
IG: @ateliermatiasmosquera

PROJECT TEAM:

Lead Architect: **Matias Mosquera**
Design Team: **Matias Mosquera, Camila Gianicolo.**
Construction Team: **Matias Mosquera, Camila Gianicolo, Marcelo Vita**
Landscape design: **Ayerza & Samaria**
Structural design: **Pedro Gea**



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THE BALANCING ACT: SECURITY VS AESTHETICS

Dipa Joshi, Partner & Residential Lead, **Fletcher Priest Architects**, discusses designing residential schemes that are secure, safe and healthy, whilst also being inclusive and aesthetically pleasing



Secure, healthy and inclusive design is not only possible, but it is essential. With such goals in mind, it is important to take a holistic, flexible approach, looking at a project from the inside to the outside, considering the disciplines of urban and interior design as well as architecture, and how we can meet the wider social and environmental challenges relating to how people live.

Inclusive design – creating environments that are accessible for everyone – can be achieved through community engagement and co-design. This means seeking out, listening to and incorporating

the views of users and local stakeholders. For urban proposals this means greater local support at the planning stage. The goal is regeneration that feels less like gentrification and more like a journey where everyone feels included. It's about creating spaces for people to thrive daily, where the use of the space throughout the day enhances the sense of safety and well-being.

Such an approach starts, literally, on the ground. Creative ground floor co-curation can contribute significantly to an active and engaging public realm, providing local people with genuine small business and community spaces



which can be active 24/7, offering indoor and outdoor interaction and a sense of civic ownership. This increases footfall, generates business, and boosts passive surveillance and security, reducing potential dangers arising from underused spaces or routes. Together with creative lighting and accessible landscape design, this can enhance the safety of women and girls, who often feel excluded from public spaces that lack activity and natural surveillance.

Creative uses can also come about through S106 contribution requirements; local authorities have a role in demanding these from developers and encouraging that social value enhancements, such as play space, community space and affordable workspace, be provided as part of the planning consent. Such ground floor spaces are often zero-valued by developers in terms of viability, yet identifying their potential can make the difference between vibrant ground floor activity and boarded-up emptiness. Ground floor design considerations need to be addressed early on in a project so that such spaces have an appropriate amount of frontage, depth, height, and access requirements for optimum functionality. Take a scheme we have worked on in Charlton, by the River Thames; it can't have homes on the ground floor due to the flood risk. While we wouldn't put something like a car repair shop in there – it would be too noisy for the residents above – other, lighter

industrial uses will work and ultimately add value to community experience. Meanwhile, our design for a residential-led scheme with 500 homes at Cherrywood in Dublin sees indoor and outdoor communal uses located at the heart of the development. This creates a social, inclusive and active ground floor, one that encourages greater footfall, passive surveillance and ultimately safety.

Varying residential typologies maximising dual aspect are included: apartments, townhouses and duplex clusters. Similarly, at our Athletes Village (now East Village) in Stratford, podium communal gardens have triplexes straddling the edge, providing ground floor front gardens plus podium first floor garden amenities. Planting barriers between a resident's front door and the public realm creates a secure area, reducing the need for shared lobbies in favour of private entrances from the public realm, increasing active frontages and creating a greater sense of ownership. It also avoids dark corners, thereby improving security and a sense of safety.

When it comes to wellbeing, being able to look out of – and open – windows in one's home in two different directions has huge benefits. Such dual aspect arrangements offer better views and improve daylight and ventilation, thanks to a reliable flow of fresh air and available natural light, both essential for good health. This is behind the drive to increase the number of homes in a development



featuring dual aspect windows, and to enhance amenity and landscaping. Another ever-present design consideration has been safety inside our homes, but recent developments have created a greater focus on improving this aspect of residential delivery. Adjustments to accommodate new fire regulations and a shift to having two stairs and two directions of escape for every resident in tall residential developments often have an impact on massing, as well as a scheme's viability.

In design terms, this approach points towards buildings with limited height variation and apartments linked by corridors connecting two stairs. While this is great for escape in case of an emergency, it puts pressure on increasing the percentage of dual aspect. It creates an interesting tension between fire safety and the increasing drive for a greater proportion of dual aspect homes that support resident wellbeing and requires creative design to create viable solutions. Other design considerations include a revival of incorporating deck access to apartments, maximising true dual aspect, and promoting good ventilation. Increased wall depth has come about from a fabric-first sustainable design approach and compliance with the new part L regulations. Alongside this, while reduced glazing – changing window proportions to a squarer format, incorporating deep reveals and maximising safe opening distances – increases comfort and reduces overheating, this needs to be balanced against a room receiving good daylight.



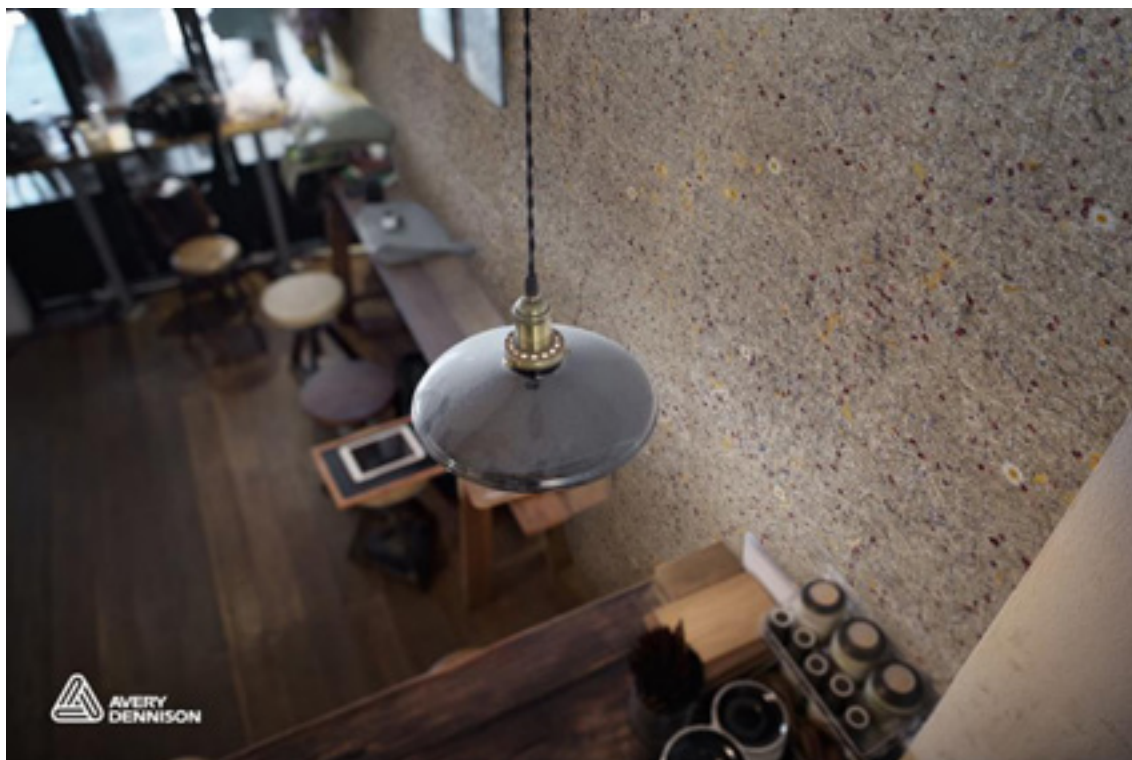
Poor air quality, critically detrimental for our health, may be present in similar locations where noise is an issue. Sustainable energy strategies integrating air source heat pumps with MVHR systems allow intake air to be filtered, removing pollutants. Opening windows for ventilation and comfort control may not be feasible in noisy environments, but combining them with winter-gardens or atria can ensure residents benefit both from daylight and views and the flexibility to open windows during quieter times. Our mixed-use scheme in HafenCity in Hamburg, for example, incorporates winter-gardens and oriel bay windows as well as a special secondary glazed openable leaf window. These were developed to give residents the feeling of control over their own domestic environment, maximising amenity and aspect, whilst mitigating the negative

impacts of road and rail noise. This architectural approach enables a full mix of uses to thrive alongside each other and contributes to a well-connected urban location.

To conclude, the design of secure, healthy and inclusive spaces is made easier if these factors are considered holistically and at an early stage of the design process. If such principles are embedded into the design strategy the resulting outcomes will be both positive and long lasting. It's worth remembering that long term sustainability is as much about social sustainability – creating a feeling of safety and wellbeing – as it is about environmental sustainability.

www.fletcherpriest.com
IG: @fletcherpriestarchitects





ORGANIC SURFACES

Vinyl wrap surface specialist **Architextural** showcase the exciting **Organoid** range featuring seven designs with more patterns to be announced

Textured, organic surfaces are fast becoming the must-have decoration, making one-dimensional printed paper a thing of the past. Launched earlier this year, the Avery Dennison Organoid range brings the outside in, adding layers of interest to any room, whether it be a hotel, office, coffee shop or home.

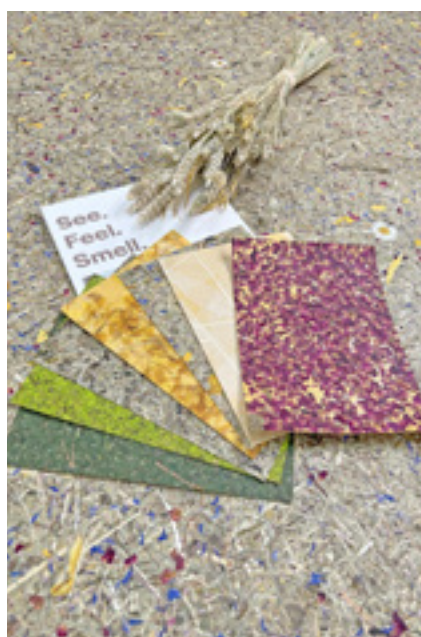
Organoid is perfect for any business looking to improve the comfort and appearance of their interior space. The range, which provides a natural, eco-positive design solution, includes seven finishes, three of which are translucent films suitable for window application. The four solid films in the collection are Moss Bright Green, Moss Dark Green, Original Alpine Hay, and Mountain Hay and Marguerites. The three translucent films include Rose Petals, Sunflower Petals, and Skellett Leaves.

Lindsay Appleton, marketing manager at Architextural, part of the William Smith Group 1832, said: "The Organoid range is a great natural hand-made alternative to wallpaper or wall art. The addition of smell is a unique feature of the range, but the fact that the film is made entirely from natural materials is also incredibly important within the interior design

industry. Sustainable solutions have never been more important. Organoid Natural Surfaces is a fantastic example of what can be achieved when doing just that." The Organoid Natural Surfaces range is made from organic and regionally produced raw materials, often reusing ingredients that are a by-product of

others, including things like alpine hay, sunflower petals and even real moss. Rather than processing the material through conventional production processes, these natural materials are mixed by hand with an ecological binding agent and pressed together onto a self-adhesive tape, resulting in a thin, compact film layer. The film is practically emissions-free and allergy tested, meaning it's free from any subsequent ecological health concerns. Avery Dennison Organoid Natural Surfaces have a robust durability of up to five years and are excellent for short to medium term applications. The film is suitable for application to a variety of challenging substrates such as smooth and slightly textured walls, plasterboard, chipboard, metal, concrete, furniture surfaces and many more.

New patterns are set to be announced soon, find out more at www.architextural.co.uk/organoid-natural-surfaces/ or contact info@architextural.co.uk for a sample pack.



**www.architextural.co.uk
IG: @Architextural**



FESTIVAL READY

Building tours, parties, exhibitions, films and book signings are just some of the engaging fringe events announced at the **World Architecture Festival 2022** in Lisbon

With just days to go until the festival opening from 30 November – 2 December, architects and designers visiting the event in Lisbon can look forward to participating in a lively programme of associated fringe activities.

Alongside the keynote talks and discussions from the industry's most influential figures, live-judging of hundreds of shortlisted projects and an exhibition hall full of the latest innovations and technologies, delegates can also look forward to a huge range of additional events including architectural tours, a travelling exhibition, films, book signings and more.

Highlights from this year's fringe include:
WAF Welcome Reception - All are welcome to attend this celebratory opening party, sponsored by Aestech, which takes place from 7pm on Tuesday 29 November at the stunning Myriad Crystal Center in Lisbon.

Le Corbusier – A Travelling Exhibition
 - Taking place for the duration of the festival, the 140+ models of the works of Le Corbusier (1887-1965) exhibited are from the private collection of RT+Q Architects, Singapore.

Aga Khan Award for Architecture Winners Films - Watch short films of the shortlisted and winning projects from this year's awards, established in 1977 by the Aga Khan to "identify and encourage building concepts that successfully address the



needs and aspirations of communities in which Muslims have a significant presence".

AR Emerging awards prizegiving reception - Join The Architectural Review for the AR Emerging awards prizegiving drinks reception, supported by VMZINC, on Thursday 1 December at Suspenso in Lisbon to recognise and celebrate the shortlisted young designers and architectural stars of tomorrow whilst enjoying the exceptional view over the Tagus River.

WAF Gala Dinner - Taking place at the historic Convento Do Beato in Lisbon on Friday 2 December, the final evening of the Festival, celebrate with old friends and new as the overall winners are revealed. Tickets are booked separately, visit the WAF website for details.

The Architecture Drawing Prize Winners Exhibition - View the winning and commended entries from architects, designers and students across the world and celebrate the significance of drawing

as a tool in capturing and communicating architectural ideas.

Peter Cook Book Signing & Reception in association with ABB - Don't miss your chance to meet world renowned architect, professor, writer and Partner of CHAP - Cook Haffner Architecture Platform, Sir Peter Cook at this exclusive book signing and reception.

Altice Arena Building Tour - A guided tour of the Altice Arena with Regino Cruz, brought to you by VMZINC. Taking place on Wednesday 30 November from 3.20pm to 4.20pm

Parque das Nações Office Building Tour - A guided tour of the 2022 Lisbon Prize winner, led by the architect of the project, Eduardo Capinha from Capinha Lopes Consulting and brought to you by Kreon. Taking place on Tuesday 29 November from 2.00pm to 4.00pm. Tickets for these building tours are free but spaces are limited so book on the WAF website to avoid disappointment.

WAF's sister event, INSIDE World Festival of Interiors, will run alongside the architectural festival at the FIL in Lisbon, showcasing 2022's most innovative interiors projects across 11 categories. Together, the events will welcome around 1500 delegates to the city from 30 November – 2 December 2022.

www.worldarchitecturefestival.com
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MEET GAGGENAU AT WAF

Luxury home appliance manufacturer **Gaggenau** are set to attend the World Architecture Festival (WAF) in Lisbon later this month. We caught up with their Global Architects and Interior Architects Manager, **Victoria McKay**, to find out what the brand has planned for their visit

WHAT ARE YOU MOST LOOKING FORWARD TO AT WAF 2022?

We are looking forward to hearing about the outstanding projects that have been submitted. Gaggenau take inspiration for their products from architecture and design, aspiring to the needs and experience of professionals. It is particularly interesting to experience design challenges at first hand from architects and industry experts. We are also excited at the prospect of meeting existing partners face to face again and establishing new contacts at the festival. We welcome the networking side of the event greatly and are keen to meet the architect and design community on a personal level to share experiences, inspire each other with new ideas and solutions and to discuss upcoming trends.

WAF PROVIDES THE OPPORTUNITY TO MEET FUTURE COLLABORATORS - WHAT SUPPORT CAN GAGGENAU OFFER ARCHITECTS AND DESIGN TEAMS?

At Gaggenau, personal contact with architects and designers is essential. We are in constant exchange and continuously evaluate feedback we receive to improve the experience of working with our brand. With the needs and requirements of the A&D community in mind, we have recently developed a number of channels of support. Our microsite, directed at professionals, consolidates the necessary planning and product information to support the specification process, including a 2D/3D data library.

Part of our continued service is the launch of a design support channel to help with specific design, engineering or technology challenges. This service, boasting a global team of specialists behind the scenes, eliminates complexity, saves valuable time and joins the option of a dedicated relationship manager for projects.

WHAT ARE YOU KEEN TO DISCUSS WITH ATTENDEES AT WAF?

We are keen to present our holistic approach not only in our professional service level, but also in our portfolio of luxury kitchen appliances. These are all individually accomplished, but designed to function as systems, to complement each other and simplify kitchen processes. Gaggenau designs are timeless and fit into a wide range of interior styles offering the designer utmost planning freedom and the knowledge that they are meeting the most exacting of demands. Buzzwords here are individuality, but also combinatorics, always with the highest level of quality in our choice of materials and in manufacturing processes. It is in Gaggenau's DNA to make it last.

DO YOU HAVE PLANS TO ATTEND ANY OTHER UPCOMING EVENTS?

Two of the main events that Gaggenau will be attending are in the cities of Paris and Shanghai in the coming year. With the opening of brand new flagship showrooms in each, the Deco Off festival and Shanghai Design Week are a focus.

Gaggenau's new showroom experience concept showcases experiential kitchen scenarios that present the appliances in a completely new and inspiring way. With a variety of materials, looks and finishes, representative of sophisticated living environments. The uniqueness of each location and the local setting in design and architecture are integrated into the history and heritage of the brand.

WHAT ARE GAGGENAU FOCUSED ON FOR 2023?

We strive to redefine existing boundaries and are working on new products that will (again) reshape the perception of the kitchen. We will strengthen our focus on integration and materiality and will also incorporate new technological developments in user interaction and usability. Conscious luxury in design for Gaggenau means offering timeless and value-preserving solutions, minimizing our carbon footprint and taking responsibility for generations to come. In our endeavour to be the go-to supplier for residential projects large and small, we will continue to strengthen our ties with the A&D community, increasing our presence and offering support at all project stages.

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BENEATH THE SURFACE

Surface Design Show is gearing up for the next edition, once again showcasing the best in material innovation from 7-9 February 2023

A well-established part of the design calendar for nearly twenty years, the **Surface Design Show** returns to London's Business Design Centre, 7-9 February 2023. It provides the perfect opportunity for materials experts and the architecture and design community to come together under one roof.

The 2023 theme is 'Shaping Communities'; with an ambition to improve the surroundings for all through collaboration and meaningful design solutions. Visitors to the Show will be inspired by new product launches running the gamut of colour, materiality and sustainability, plus diverse displays of surface-based installations and a comprehensive speaker programme featuring accomplished industry professionals, passionate about the future of surface design. Supporting emerging material designers has always been important to Surface Design Show. That's why the New Talent section will, for the fourth year in a row, to be held in partnership with Trendeaze International. This forthcoming edition will be the most

international yet with New Talents coming from as far afield as Sweden, the Netherlands, Lebanon, Malaysia, Korea and China and will give them the opportunity to learn from each other and to connect for a better future. Surface Design Show welcomes back Surface Spotlight Live (SSL), an area which gives visitors a chance to touch and compare the latest material prototypes. Centred around this year's theme, 'Shaping Communities', SSL will highlight the importance of new exchanges between surfaces, people and environments. The Stone Gallery showcases the possibilities with one of the most sought-after materials with this section of the Show attracting companies from the UK, Europe and further afield. It is officially supported by Stone Federation Great Britain whose Knowledge Hub forms a focal point for its member companies. The talks programme is always a particular highlight of Surface Design Show. The Main Stage will host 18 different presentations and feature more than 40 speakers, inspiring a professional audience of architects and designers.

The PechaKucha evening also returns for 2023 having previously been an entertaining talking point of Surface Design Show. This fast and furious speaking format sees 8 speakers battling to get their message across, presenting 20 slides for just 20-seconds each. This evening will be hosted by Nicola Osborn, creative director of design studio Basha-Franklin. Another popular element of the Show is the Surface Design Awards. Now in their 11th year, they continue to set a benchmark for architectural and design achievements across the world. Following the success of its debut last year, the Architectural Photography category returns once more for 2023. Surface Design Show 2023 builds on the success of the event, which has been running for over fifteen years, as a place to encourage a meaningful exchange of ideas between manufacturers and the marketplace to further material innovation.

www surfacedesignshow.com | IG: @surfacethinking





NEW DESIGN DIMENSIONS

Materials by surface finish specialist **Armourcoat** add new light dimensions to world-leading astronomy discovery centre

The £20.5m First Light Pavilion at The University of Manchester's Jodrell Bank is leading the way in technologies beyond its focus on astronomy, using innovative materials from Armourcoat.

The National Lottery Heritage Funded Pavilion is a new discovery centre which has already won awards for innovation. It will house a permanent exhibition on the history of Jodrell Bank, now a UNESCO World Heritage Site. Built by Kier Construction to JM Architects' brief, the new attraction features what is believed to be the largest reinforced concrete dome in Europe.

Designed to appear as a natural hill in the surrounding landscape, the dome of the building matches the size and scale of the bowl of the nearby Lovell Telescope, Jodrell Bank's most famous landmark. The building is partially buried beneath earth and grass, leaving a stunning curved entrance façade which includes a meridian line linking the structure to the skies above. The client aspired to maintain the walls exposed internally to celebrate the uniqueness of the in-situ concrete,

showcasing the versatile colour and texture of the raw material. JM Architects' solution was a combination of materials by surface finish specialist Armourcoat. The result is an insulated render that looks like concrete, with an added dimension that adds a decorative polished finish to the façade. Armourcoat's team applied an initial layer of custom shaped EPS to the building's curved exterior, then finished with Armourcoat PPX system to achieve an ETAG 004 compliant external wall insulation (EWI) system. Olga Vlagkouli, JM Architects, commented, "The concrete had to be insulated and the client wanted exposed concrete internally which meant we had to insulate externally and then weather protect the insulation externally. At the same time the client wanted a concrete feel; due to the complexity of the geometry Armourcoat allowed for the material to be worked on site to offer the desirable effect." Kier Construction Project Manager Ryan Southern added, "The finished entrance looks stunning. The PPX limestone render

curves and bounces the light, creating a smart artistic impression. It's a fitting welcome to visitors to this first-class attraction that demonstrates Jodrell Bank's world-leading place in the history of astronomy."

Armourcoat EPS includes graphite which enables it to reflect 20% more radiant heat than standard EPS. This optimises the thermal performance of the building, meeting or exceeding current Building Regulation requirements. Armourcoat PPX system comprises a limestone render custom-formulated for the project, to achieve the degree of flexibility in the coating to enable seamless application across the complex geometry of the curved façade. Based on Armourcoat's market-leading polished plaster finishes, PPX incorporates hydrophobic polymers and reactive pozzolans, forming a sustainable, decorative, weather-resistant, vapour permeable layer. The finishing top-coat contains almost 60% recycled content.

www.armourcoat.com | IG: @armourcoat



in the hills with our dog after school. I remember the moments we would stop to perch on little rocky outcrops for rest and witness the theatre of construction below. Mountains were moved, seas were reclaimed and the thud of piling always carried in the air. On a more intimate scale I fondly remember trips with my father to the newly completed Hong Kong and Shanghai Bank. It felt ceremonial to ascend the escalators and leave the hot muggy world below to enter the cool hive like atrium. It was captivating, inspiring, other worldly and it sparked a curiosity that would grow into a passion.

WHERE DID YOU STUDY?

Jonathan: I grew up in London and stayed close to my London roots and studied at the Bartlett School of Architecture at University College London for both my undergraduate and post graduate studies. I then went on to the University of Westminster for my professional qualifications (Part III).

Tom: I studied at Macintosh School of Architecture (BaHons – Year 1), University of Newcastle Upon Tyne (BaHons – Year 2&3), WilkinsonEyre Architects (Year 1 placement), Bartlett UCL (DipArch – Years 4&5), and Westminster University (Part III). I always wanted to obtain a rounded

FREEHAUS

Tom Bell and **Jonathan Hagos**, Founders of progressive architecture practice **Freehaus**, discuss serving their communities with conscious design. By Rebekah Killigrew

Freehaus are a studio that passionately believes architecture has a positive role to play in society, and the team are rooted in empathy, equity, transparency and fairness.

Founded in 2012 by architects Tom Bell and Jonathan Hagos, they have spent the last decade building a reputation for sensitive and sustainable design projects, with social and environmental impact at their heart.

The Freehaus team have a host of ambitious residential, commercial and community projects under their belt, including the recently completed Africa Centre HQ in Southwark, London. With plenty more to come from this progressive practice, we caught up with Founders Tom Bell and Jonathan Hagos to find out about their individual journeys and how they come to together as a studio.

WHAT IS YOUR EARLIEST MEMORY OF DESIGN AND ARCHITECTURE?

Jonathan: My godfather lived in a beautifully decorated apartment in Amsterdam. Johan de Boer, or 'Opa' as I called him, was a furniture designer and his home was a palette of rich timbers, rattan, and the type of orange vacuum formed plastic that defined the late 70's. My early memories of design were informed by him. My mother is a polymath and alongside her career in healthcare and education juggled commissions as an upholsterer and carpenter and so growing up around her craft (and graft) was an inspiration. She later became a restaurateur and was pleased to be able to design her restaurant for her!

Tom: I spent my formative years in Hong Kong, where I vividly recall the unique and ever changing built urban landscape set against high green peaks. I was captivated by the pace of change. I recall daily walks





Bahlsen Stammhaus project

education with multiple perspectives. At the Macintosh School of Architecture I remember the rigour of hand drafting lessons and lectures by the late Gavin Stamp. At Newcastle we were encouraged to develop contextual designs, detail and explore environmental principles. This was counter balanced

with two years of conceptual design exploration at the Bartlett under the tutorage of Andrew Holmes.

WHAT KIND OF ARCHITECT DID YOU ASPIRE TO BE?

Jonathan: I've always been interested in public buildings and architecture that

shapes neighbourhoods and communities. I am also fascinated by the interplay between foreground buildings and the many background buildings that have an equal part to play in how we interact with the world around us.

My own experience of designing civic buildings really began when I worked at Calderon Folch arquitectes in Barcelona in 2008, the practice really invested in an architecture that brings social value and actively engaged in co-design and co-authorship, well before they were fashionable working methodologies.

Tom: I have always been interested in how buildings work, how they are put together and how they perform. Chris Wilkinson and Jim Eyre used to talk about 'bridging art and science' which makes a lot of sense but I also aspire to create architectural outputs that afford end-user opportunity, nurture growth and deliver a legacy beyond the red line boundary. This was triggered by my year one summer school trip to Columbia in collaboration with the University of Bogotá. Where we built a prototype house for a rural community using bamboo and rammed earth techniques to explore a new sustainable vernacular using affordable modern methods of construction.

WHO ARE YOUR DESIGN/ARCHITECTURE INSPIRATIONS?

Jonathan: We used to spend summers in the Netherlands visiting family and I remember seeing OMA's Kunsthal in Rotterdam when I was around 15. It was my first memory of a building that felt like it actively invited and welcomed members of the public into it. I'll never forget the feeling of walking past for the first time before being swept inside, by what felt like the building itself, and finding myself swept by these generous ramps that led me deep inside the building and the dynamic and eccentric spaces within.

I also hold the work of Bolles + Wilson in similar regard - in particular their public library in Munster which I was thrilled to interview them about recently for the Architecture Foundation. The early work of EMBT and Flores Prats both hold a strong space in my heart and my time earlier in my career practicing in Catalunya.

Tom: This is a hard question! I have a soft spot for Herman Hertzberger and his ability to craft thresholds, moments for interaction and give purpose to spaces in between.

WHAT DOES FREEHAUS REPRESENT AS AN ARCHITECTURE FIRM?

Jonathan: We are a humble and attentive practice. We're really not interested in egos and the architect at the centre of the room and of all things. At our core a call to using design to best serve our communities.



Wilton Way project



City of London School project

HOW DO YOU CONTINUE TO CARVE YOUR OWN PATH IN THE INDUSTRY AS A STUDIO AND AN INDIVIDUAL?

Jonathan: We have always recognised that the success of any practice is how we balance and fuel the aspirations of the practice with that of the individuals that comprise our team. We want to use the practice to fuel our own ambitions and so it's been exciting that we've each been able to undertake roles outside of the practice, whether that is lectures and talks, judging awards, as part of design review panels, as mentors for young people and as design champions in the industry. I have a particular interest in working in existing buildings and promoting a more expansive and accessible definition of the subject of Heritage and Identity. The practice has been able to afford me the opportunity to further my interests here and so over the years I've become an RIBA Conservation Registrant to reflect my experience working in historic contexts and I was also Heritage Champion as part of the North Tottenham Townscape Heritage Initiative which supported a broader valuing

of our local built environments. I am also currently working with several London churches as a Quinquennial Inspector and Parish Architect to help dovetail the community ambitions of our clients with necessary remedial work to the historic fabric of places of worship.

Tom: We are a hive of like-minded individuals with agency to pursue both personal and collective ambitions. Personally, I continue to explore my interest in environmental design and have recently qualified as a Certified Passivhaus Designer which has afforded me a greater understanding of building science, building performance, fabric first principles and the inadequacies of building regulations. In the context of the studio, we are interested in the role sustainable design can have to improve health and wellbeing and foster sustainable communities.

WHERE IS THE MAJORITY OF YOUR WORK BASED?

Jonathan: We are a London based practice and a lot of work is based in the city, especially in more suburban areas and smaller town centres. We are broadening

our outputs and are excited to be working in Oxfordshire now that Tom is based in the area. We have had exciting commissions in Berlin and Hannover and continue to have outputs in Germany.

WHAT HAS BEEN YOUR BIGGEST DESIGN COMMISSION TO DATE?

Jonathan: The City of London School for Boys project working in collaboration with Morris + Company has been our biggest commission to date. It's a thrilling opportunity for us to be working on an education building of such scale and prominence and to be working with a truly collaborative and nurturing practice like Morris + Company has been really rewarding.

WHAT DOES THE FACE OF ARCHITECTURE LOOK LIKE TO YOU IN 10 YEARS TIME?

Jonathan: In 10 years I hope that the face of architecture looks and sounds more like the communities we are serving and moreover that the skillsets that architects can bring to the table are better valued, understood and celebrated.

Tom: I think we have the DNA and skills to create positive change in our society and in our environment. But we need to fight for these qualities to be valued over cost and short-term gains. To do so we need to be more embedded and representative of the communities we serve.

IF YOU HADN'T BECOME AN ARCHITECT WHAT WOULD YOU BE DOING?

Jonathan: An Astronomer or Cartographer, hopefully being able to combine both!

Tom: I don't think it would have landed far from the nest. It would ultimately have to be creative. I sometimes think I'm a frustrated builder at heart. Perhaps a carpenter.



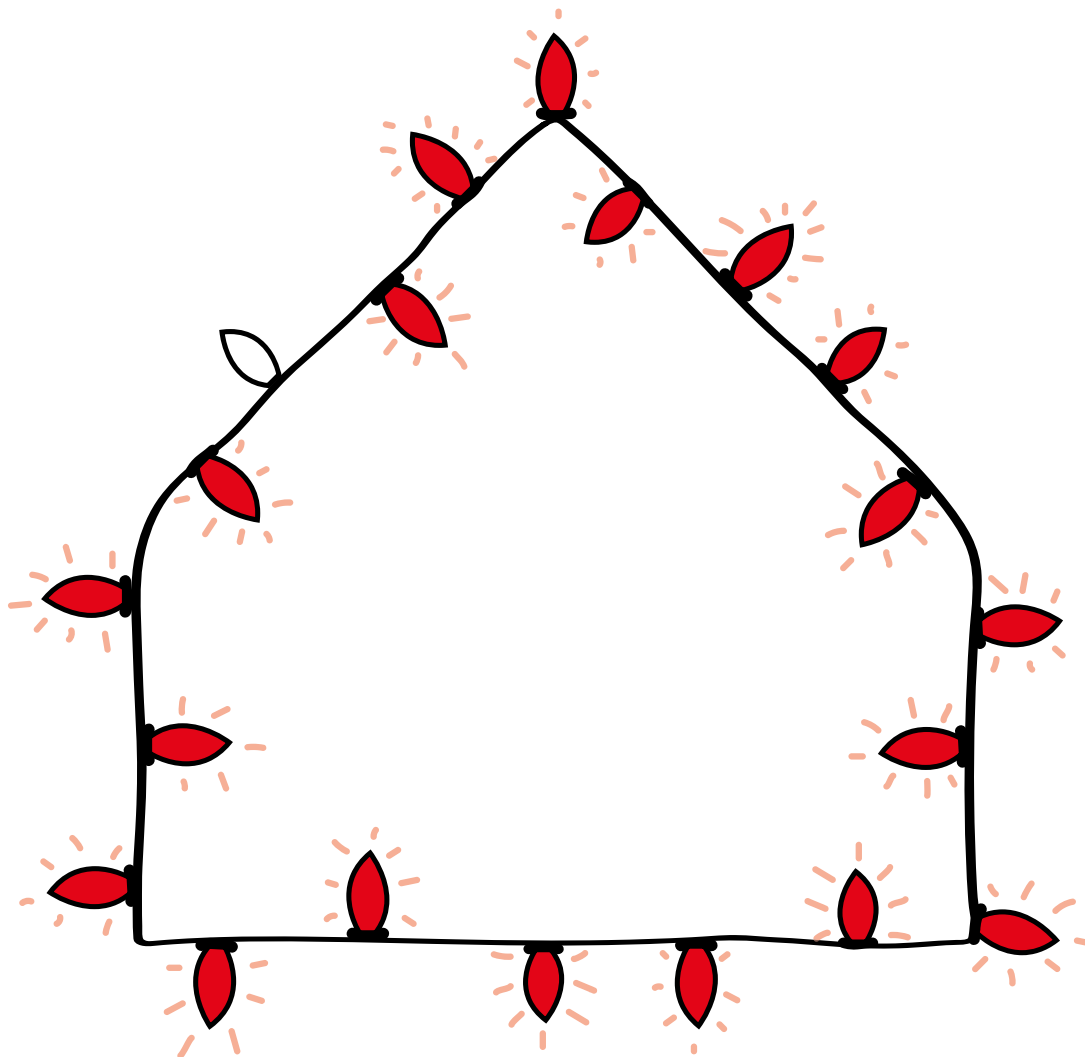
Hermann project

www.freehausdesign.com
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CONSTRUCTING **EFFICIENT SPACE**

Kelvin Green, Senior Product Manager, **Saint-Gobain Weber**, explains how steel frame construction with external wall insulation (EWI) can help to gain vital space and increase thermal efficiency when building new homes and extensions

There are many documented benefits of offsite and modern methods of construction - quicker build time, improved build quality, cost savings and less reliance on skilled labour. Until recently, little attention has been paid to the other obvious benefit associated with new methods of construction such as steel frame: more space.

Masonry construction is thick, heavy and slow. Several bricklayers, even with years of experience, could take weeks to construct a typical four-bedroom home; but there's also another important point which needs to be considered. As building regulations progress towards the Future Homes Standard in 2025, it's likely that achieving the required U-values will become harder to reach with masonry construction.

Choosing a lightweight steel frame system can reduce the need for hefty – and therefore costly – foundations and can help to keep the project timeline on track as it is not reliant on good weather. Steel frame is a very reliable form of construction and when used with an EWI system has even more benefits. Primarily, EWI systems are used to improve thermal performance and interior comfort. EWI is commonly associated with refurbishment projects, but it can be used on new build properties too. From a design perspective, EWI systems allow quite a lot of flexibility in the final



appearance as it can be finished with a render or a brick effect system to give the appearance of traditional brick. The Hide in Leamington Spa is a great example of the effectiveness of EWI with steel frame. Previously a dilapidated department store in the town centre, the building was recently refurbished to create 26 luxury apartments and retail space. Architects Tate Hindle opted for a steel frame extension and Saint-Gobain Weber's webertherm XM EWI system to maximise the internal space within the apartments without going beyond the original footprint of the property. The existing walls were of solid concrete and, including EWI, were 485mm deep and achieved a U-value of 0.18W/m²K. The frame extension with EWI was

designed to have an even lower U-value of 0.13W/m²K with an overall depth of 364mm.

To achieve the same thermal performance, a building with typical masonry construction filled with mineral fibre insulation would require a 180mm wide cavity to achieve the U-value of 0.18W/m²K, thereby reducing the internal floor area with the necessary deeper walls. As with many projects of this nature, thermal performance is not the only consideration an architect has to keep in mind. The location of the building meant that TateHindle needed to design a façade in keeping with the conservation area. Architectural moulding specialist Build-Lite worked with TateHindle to design a cornice that was in line with other buildings in the conservation area. The cornice was developed with the optimal angle to ensure rain will run off, away from the wall which should help to lower the amount of external maintenance needed. The flexibility of EWI meant that the perfect colour of finish could be used to ensure the building preserved the town's historic features while providing modern, thermally efficient and spacious accommodation.

www.uk.weber | IG: @sgweberuk
Project photography by Anna Stathaki,
courtesy of TateHindle

THE RISE OF MEESENBURG

Meesenburg Group has set itself the goal of expanding and strengthening its UK market position with a host of innovative and sustainable building solutions



Meesenburg Group is a leading dealer of specialist fittings, fastenings, tools, chemicals, and safety and security systems for the construction sector, and they have big expansion plans for the UK.

As a professional partner to the window and external door industry, the building trade, building owners, and facility management providers, they offer a comprehensive range of services alongside a broad portfolio of products including their own blaugelb, MeesenburgMatic and STROXX brands. Regional Manager Vladyslav Vasylenko is responsible for driving the UK expansion and is passionate about the positive impact the Meesenburg portfolio of products can have on the UK construction industry. We caught up with Vladyslav to discuss the first products released to the UK.

WHAT CAN WE EXPECT TO SEE FROM MEESENBURG IN THE COMING MONTHS?

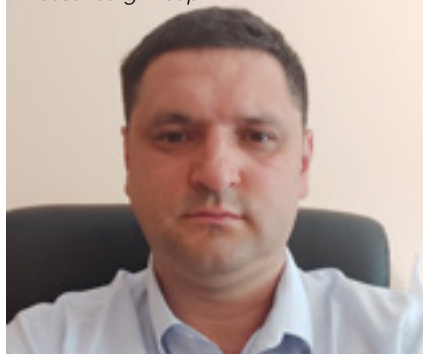
Despite global uncertainty Meesenburg Group continue to invest both in home market in Germany as well as develop business in Central and Western Europe including UK. We are presenting a unique system solution to the UK market, a pre-wall mounting system for windows and doors called blaugelb Triotherm+. Placing windows into the insulation base, and therefore integrating them directly into the cladding system, represents a major step towards energy efficiency in window design. With the blaugelb Triotherm+

"We are looking forward to many more C2C certifications of our Blaugelb products and to make our contributions to the continuous CO2 savings."

Martin Meesenburg, Managing Director and Owner.

system, this can be achieved without much cost or effort and without restricting the planning or further execution. It has been tried and tested by IFT Rosenheim and certified by Passive House International, which is easy to fit and creates added value in all aspects of windows, doors, bi-fold and sliding systems installations.

Vladyslav Vasylenko - Regional Manager, Meesenburg Group



THE BLAUGELB TRIO THERM+ WAS AWARDED A CRADLE TO CRADLE® (C2C) SILVER STANDARD - CAN YOU TELL US ABOUT THE CERTIFICATION PROCESS?

The certification process went through a total of 5 modules: Material Health, Material Cycle, Renewable Energy, Water Management and Social Responsibility. In each of these modules, the material and process assessment is prepared. As a connection between installation companies, investors, architects and production companies, the first C2C certification of the blaugelb Triotherm+ Profiles gives all involved parties the opportunity to combine their projects in terms of economy and environment in the future.

TELL US ABOUT THE MEESENBURG VIRTUAL SHOWROOM, AND HOW THIS SUPPORTS ARCHITECTS AND SPECIFIERS WHEN PLANNING FOR PROJECTS?

In the line of digitalization strategy, the virtual show room was presented to the public in 2022. It brings to new level collaboration with our clients and stakeholders. It could be of great use for the architectural community as it provides not only 3D visualization of Meesenburg main systems, which could be essential for end customer, but also a complete engineering pack including BIM models necessary for architects and specifiers.



Scan me to visit the Meesenburg virtual showroom
www.hochzwei.me

WHAT ARE YOU FOCUSED ON FOR 2023?

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Daniel Cobb



Daniel Cobb

CLAD IN SUCCESS

Specialist façade contractors **Hamilton** completed a complex remediation on a mixed-use building for the safety of residents, NHS staff and patients

Hamilton were selected by Equans as a sub-contractor partner for a challenging remediation project, and together they have produced stunning results.

The Hyde Group, with specialist consultancy partner Martin Arnold Ltd, appointed Equans as Principal Contractor on the Artesian House project: a major contract which included internal compliance work and the complete removal and replacement of all external cladding and insulation on the high-rise, mixed-use building in Bermondsey. Hamilton worked under Equans to complete the extensive external remediation required. Artesian House, owned by The Hyde Group, is made up of 73 mixed tenure flats above a busy ground floor health centre and presented a number of challenges. Hamilton Director, Daniel Mackie, explains: "The knowledgeable team at Martin Arnold certainly had their work cut out analysing the existing material composition and designing and specifying suitable alternatives to fit the aesthetics of the building and meet today's stringent fire safety requirements. "The building featured numerous different wall types, with timber cladding on the upper floors, a combination of external wall insulation and zinc cladding on two elevations. "At eight storeys high and with a largely curved exterior, removing and replacing

the cladding and insulation was no simple task, but thankfully one that our experience meant we were well placed to tackle.

"The site team had to be particularly considerate and courteous in its approach, as residents remained in occupation throughout the project.

"Among other responsibilities, Equans also ensured that staff and visitors to the health centre had appropriate and safe access and egress throughout."

The existing cladding had been extensively tested and inspected, which Hamilton undertook for Equans and Hyde, with a combination of EPS insulation, phenolic insulation and timber, which needed to be stripped out and replaced with new system made up of all non-combustible and fully compliant materials as designed and specified by Martin Arnold.

Hamilton worked with an established network of trusted material suppliers to install the fully compliant replacement materials and meet the design specification.

Daniel continues: "There was a high level of workmanship displayed across the project, right from design to completion. The attention to detail even went so far as specifying that Rockpanels should be cut and routed off site to create a plank effect in smaller-sized panels, which would follow the curves of the building more naturally." Equans' Senior Site Manager Lewis Morrell said: "Working with Hamilton on this

technically challenging and demanding project has been a pleasure. From the off, they have engaged fully and professionally with us, the client and consultant and had valuable input into the entire project. Their desire to hand over only the highest quality workmanship is clear to see in the end product."

Martin Arnold's Associate Daniel Assender added: "Acting as the clients Contract Administrator and Design Consultant places a huge amount of responsibility on our shoulders, so when working on projects like this with Equans and Hamilton, it is key to know that the teams involved in delivering our designs have the requisite experience and skills.

"Having worked with Hamilton on a number of projects previously, we were pleased when they were appointed by Equans at Artesian House, as this gave us the knowledge that our designs would be followed to the letter."

Daniel continues: "The workmanship, professional approach to on-site design issues and continued focus on ensuring the success of the project is again a credit to Hamilton. It is always good to be working on a project with a contractor's input and experience as this invariably leads to excellent team working to present the best result to the client and residents."

www.hamiltonfirst.co.uk

BRIDGING THE GAP

Thermal experts **Schöck** discuss the details of the revised Part L Building Regulations and how to improve thermal performance

With changes to Part L of the Building Regulations having come into force on 15th June, 2022, CO₂ emissions are now reduced by 31% for dwellings and 27% for other buildings. So improving the thermal performance of building envelopes is even more critical.

Designers need to be aware of how significantly insulation values can be compromised by thermal bridges, which occur in a localised area of the building envelope – typically where a material with high thermal conductivity penetrates the insulation layer. Critical examples are cantilevered balconies, which result in higher heat transfer through the building assembly and colder surface temperatures on the warm side. The main consequences being non-compliance with regulations, condensation leading to mould growth and higher energy consumption for heating. The 2021 edition of Part L (which replaces L1A 2013) sets out the minimum thermal requirements for avoiding such issues.

IMPORTANT NEW REQUIREMENTS

Thermal bridging must now be included in fabric heat loss calculations and the Standard Assessment Procedure calculation (updated to SAP 10.2) includes the term HTB (heat loss due to thermal

bridging). A further change is that for new dwellings, an on-site audit must confirm that the details shown in the original design have been constructed, before they are concealed by subsequent work. Photographic verification must show that the products used are those in the original design. If there are substitutions, the revised specification should be reflected in the SAP calculation and included in the Building Regulations England Part L compliance report (BREL report). The revised Part L also includes general tightening of U-values, requiring greater insulation requirements and better performing thermal break details. Additionally, it encourages HTB assessment to be carried out through thermal calculation for a more realistic evaluation of existing thermal junctions. The default ψ -value has been increased to 0.20 W/(m².K) to discourage generic estimations.

THERMAL PERFORMANCE AND STRUCTURAL INTEGRITY

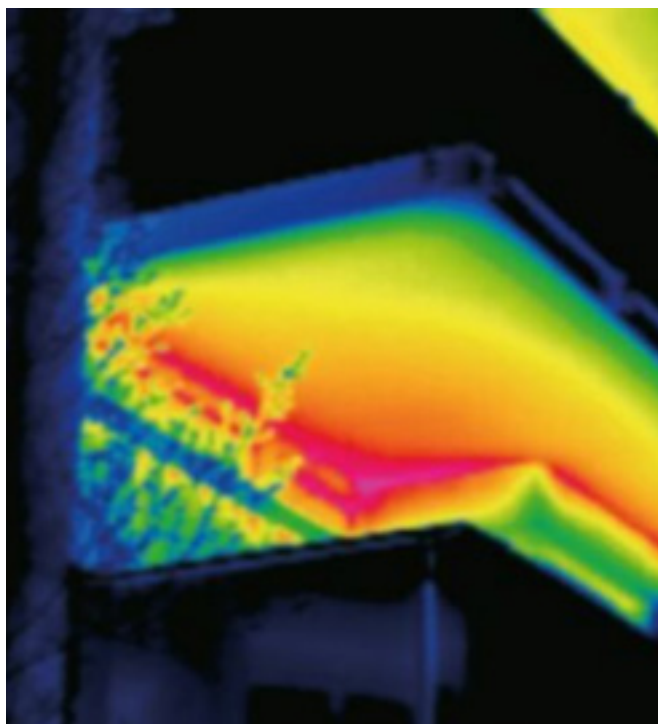
Designers do need to be fully aware of just how significantly thermal bridges compromise insulation and the most effective way to minimise thermal bridging at cantilever balcony detailing is to incorporate a Schöck structural thermal break. This is a highly efficient

balcony connector that minimises the flow of thermal energy between the interior and exterior of a building, providing both structural integrity and thermal isolation of the balcony. The Schöck range of thermal break solutions is for applications as diverse as concrete-to-concrete; concrete-to-steel; steel-to-steel; renovation projects – and even Passivhaus.

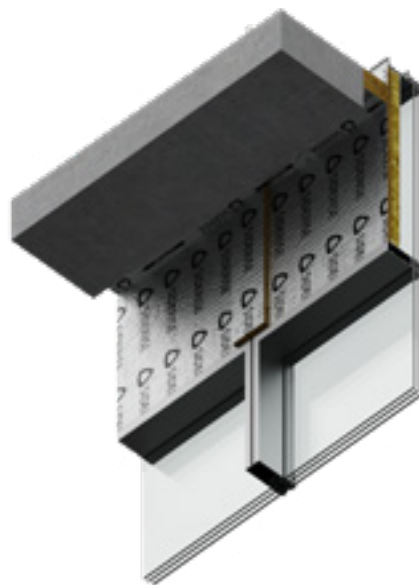
CONDENSATION AND MOULD GROWTH

With thermal bridging cold surfaces can form condensation, resulting in structural damage – and of even bigger concern – mould growth. To identify areas where there is a risk of condensation and therefore mould growth, a 'surface temperature factor' (fR_{si}) should be used. It allows surveys under any thermal conditions and compares the temperature drop across the building fabric with the total temperature drop between the inside and outside air. The recommended (fR_{si}) value for offices and retail premises is equal to or greater than 0.5; and to ensure higher standards for occupants in residential buildings, equal to or greater than 0.75.

www.schoeck.com | IG: @schoeck.group



A DECADE OF SUCCESS FOR CURTAIN WALL FAÇADES



Siderise Insulation is celebrating ten years since first having its curtain wall passive fire protection systems tested to the rigorous BS EN 1364-4 fire resistance standard. A decade on and an additional 16 successful tests later, its unique offering is still providing a straightforward yet advanced perimeter fire containment solution for protecting against vertical fire spread in the most popular curtain wall types— ensuring compliance and supporting specifiers in delivering the safest standards possible for their projects.

Siderise perimeter fire barrier systems have been specifically designed to provide enhanced fire resistance performance of the perimeter fire seal at the interface between the floor slab and the spandrel zone of curtain wall façades. These incorporate the market-leading Siderise CW-FS Curtain Wall Firestops alongside Siderise CW-FB Curtain Wall Fireboard and mullion protectors, in various arrangements.

Each system has been tested to BS EN 1364-4 in commercially available 'Type A' non-fire rated aluminium curtain walls, in arrangements achieving fire ratings of both 2 hours (EI 120) and 3 hours (EI 180). In addition to ensuring

compliance with Approved Documents B (under BS EN 13501-2 and BS EN 13830), this has been the recommended test standard for perimeter firestops used at the periphery of buildings with curtain walls by the Association for Specialist Fire Protection (ASFP) since 2014. Furthermore, in July 2022 the Centre for Window & Cladding Technology (CWCT) announced a proposed update to its Technical Note 98 to also adopt this recommendation. It is also a route to compliance in other jurisdictions around the world, such as in the UAE and Europe.

Siderise is a strong advocate of third-party certification, including multiple BS EN 1364-4 test arrangements, undergoing factory audits and manufacturing checks prior to testing. This provides specifiers with clear assurance in the performance and consistency of the products. Many of its BS EN 1364-4 tests are third party certified and, to date, Siderise CW-FS Curtain Wall Firestops remains the only curtain wall perimeter barrier system to be CE Marked.

For more information, visit www.siderise.com

WAVERLEY INVESTS AND GEARS UP FOR INCREASED DEMAND

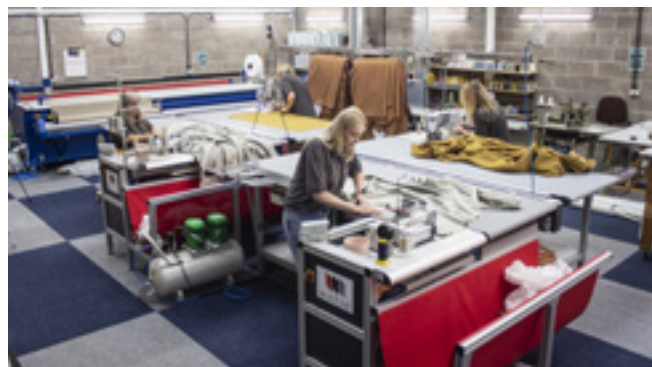
Waverley is investing over £700,000 this year to enhance the shading, screening and acoustics solutions provided to architects, specifiers and contractors in the South East and for major projects across the UK. Its latest move sees a doubling of production capacity for commercial blinds and curtain tracks as it moves to a larger site on the Bilton Way industrial estate in Luton. The investments include: the expansion of its UK production capacity for blinds and curtains to mitigate the impact of Brexit and shorten lead times, the integration of technological advances to help architects design buildings which boost productivity and tackle the impact of climate change, and the enhancement of its product offering via its new Exteriors division and the addition of a new glazed partitioning range.

Daniel James, Managing Director of Waverley, says: "Waverley is confident about investing for growth as demand for our core expertise in blinds, curtains and decorative screens will only increase. Protecting users from heat, glare and noise is vital if buildings are to mitigate against the effects of climate change and enhance occupant productivity and wellbeing."

In 2022, the company has semi-automated production to triple capacity at its curtain workroom facility and acquired SioSystems - a specialist company which designs, manufactures, and installs high-end acoustic glazed partitioning. It has also launched Waverley Exteriors and expanded its range to reflect an increased emphasis on outdoor living and the climate emergency. Finally, it has recruited six marketing, sales and customer service professionals for its head office operation in Farnham, Surrey..

The new 14,400 sq ft manufacturing facility in Luton opened in October 2022. It enables Waverley to double production capacity and respond to increasing demand for high volume production of blinds and curtain tracks as the company wins more major projects.

www.waverley.co.uk | www.exteriors.waverley.co.uk | www.siosystems.com





CEILING SOLUTIONS

Barrisol®, a world leader in stretch ceilings, present a range of products that offer energy-saving ceiling solutions for heating, air conditioning, ventilation and air purification

Barrisol® and Carrier® combine their expertise to market a range of unique advanced HVAC ceiling solutions that provide unparalleled comfort and air quality and allows up to 15% energy savings in both heating and cooling modes.

HVAC (heating, ventilation, air conditioning) solutions for office buildings, hotels, restaurants, private homes and any other industry application wishing to offer an aesthetic, more comfortable and healthier interior environment.

Barrisol, a world leader in stretch ceilings, and Carrier, one of the world leaders in innovative HVAC technologies, are combining their expertise. The two companies are now in a marketing alliance, to commercialize a complete range of ceiling diffusion solutions, coupled with HVAC systems.

This range, which is part of Barrisol's Advanced Care Solutions and Carrier's Healthy Buildings program, benefits from the combined skills of the two manufacturers to offer systems that provide thermal comfort, unequalled indoor air quality and incredible aesthetics. Carrier confirmed the exceptional performance of the systems by means of a testing campaign carried out in 2020 at their laboratory in Culoz (France). To adapt to all configurations, the solutions are available in 3 versions: Barrisol Clim® featuring Carrier® Products allows to diffuse heating, air conditioning and ventilation in an invisible, silent and draft-free way with a great temperature homogeneity. It uses a biosourced membrane over the entire surface of the ceiling. For optimal indoor air quality, the Barrisol Pure Clim® featuring Carrier® products

version of the solution allows, in addition to the air conditioning functions, the destruction of pathogens present in the ambient air thanks to the germicidal action of UVC lamps installed into the plenum. Barrisol Cloud Clim® featuring Carrier® products solution uses the principle of hybrid thermal diffusion combining radiation and convection in a modular format.

The system is presented in the form of a panel suspended from the ceiling, true decorative objects and was awarded a Reddot Design Award Best of the Best for its aesthetics in 2021.

For more information on Barrisol® and Carrier® HVAC ceiling solutions visit www.barrisolclim.com/en

www.barrisol.com/uk

Barrisol Clim® featuring Carrier® products

up to 15% energy savings
in both heating and cooling modes



Arch. : Z&Ampone architectuur

Well-being through air conditioning

Invisible air-conditioning - Hybrid hot/cold diffusion by radiation and convection - acoustic and luminous.
Thermal comfort performance Class A cold and Class A warm performance according to the ISO 7730*

Carrier® and Barrisol® advanced HVAC ceiling solutions

Outstanding Comfort and enhanced Indoor Air Quality
It can also be luminous, acoustic and printed. 100% recyclable

Barrisol Pure Clim® featuring Carrier® products

Disinfection of your indoor air with UVC radiation

Our unique Barrisol Clim® featuring Carrier® products solution allows to air condition and ventilate your rooms in a homogeneous way and without draughts. With the Pure Clim® option, the ambient air can also be purified thanks to UVC lamps.

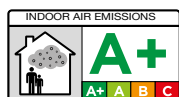
Ceiling air conditioning, silent, invisible and homogeneous.
Thermal comfort **Class A cold** and **Class A warm** according to the ISO 7730. 100% recyclable.



Barrisol Cloud Clim® featuring Carrier® products

Aesthetic and comfortable air conditioning with modular panel - Barrisol Biosourced® membrane. Hybrid hot / cold diffusion

* Tests carried out in the Jean Falconnier laboratory on the Carrier - Culoz site. Further information available on request.



Advanced Care Solutions®
www.barrisol.com





SETTING THE STANDARDS

When our Managing Director took full control of the company in 2015 and set about transforming it into a modern day British, high-quality stainless steel fabrication company. His vision was to make the highest quality products with a young and innovative workforce.

Since John took control, the company has moved to larger premises, installed the latest equipment and technology and introduced modern efficient manufacturing technologies. In addition, he set about securing our long-term future by investing in our staff and in that time has reduced the average age of our workshop from 54 to 34.

Our ethos - Well trained, highly skilled engineers manufacture amazing products and that is exactly what happens at Paragon.

In keeping with our vision to manufacture only the highest quality products Paragon only manufactures in grade 316L stainless steel. All material comes from Western European foundries with test certificates made available to clients.

Our clients value us, because we value them as unique and always aim to resonate with what they are seeking to do.

While our standard range is second to none, **We are at our best when it is bespoke.**

Going on site, seeing the challenges first hand, understanding the complexities and potential problems, and providing a solution is what propels us to beyond being just good and becoming exceptional.

We do not see taking those extra steps as a cost, but the making of us. We believe that this is the foundation to building a long term, successful partnership with our clients.

Quality of workmanship and excellent client experience is at the heart of everything we do.



Our product range is expanding all the time. The reach of our expertise is now far and wide and we are constantly seeking new ways to improve our value of service to an ever increasing mix of industries. This means that Paragon Stainless working alongside the following sectors –

Construction

Drainage Channels – Gullies –
Handrails – Grates – Juliet
Balconies – Ladders – Access
Hatches – Manhole Covers –
Cantilever Roof Drainage –
Barriers

Leisure Sector

Drainage Channels – Gullies –
Handrails – Hydrotherapy
Loungers – Massage Seats - Ice
Baths – Portal Windows – Water
Features – Bar Stools – Stair
Treads – Pool Steps

Food and Beverage

Drainage Channels – Gullies –
Sinks – Urinals – Oven Trolleys –
Worktops



Everything we manufacture is made in our factory in Colchester

Our Clients

We have a prestigious range of clients and are specified by over 40 PLC's.

Our clients range from **English Heritage** through to **David Lloyd Leisure**, **McDonalds' Restaurant**, **Wilmott Dixon**, **Soho House**, **Wilkins & Son**, **Midgard** and **Graham Construction**.

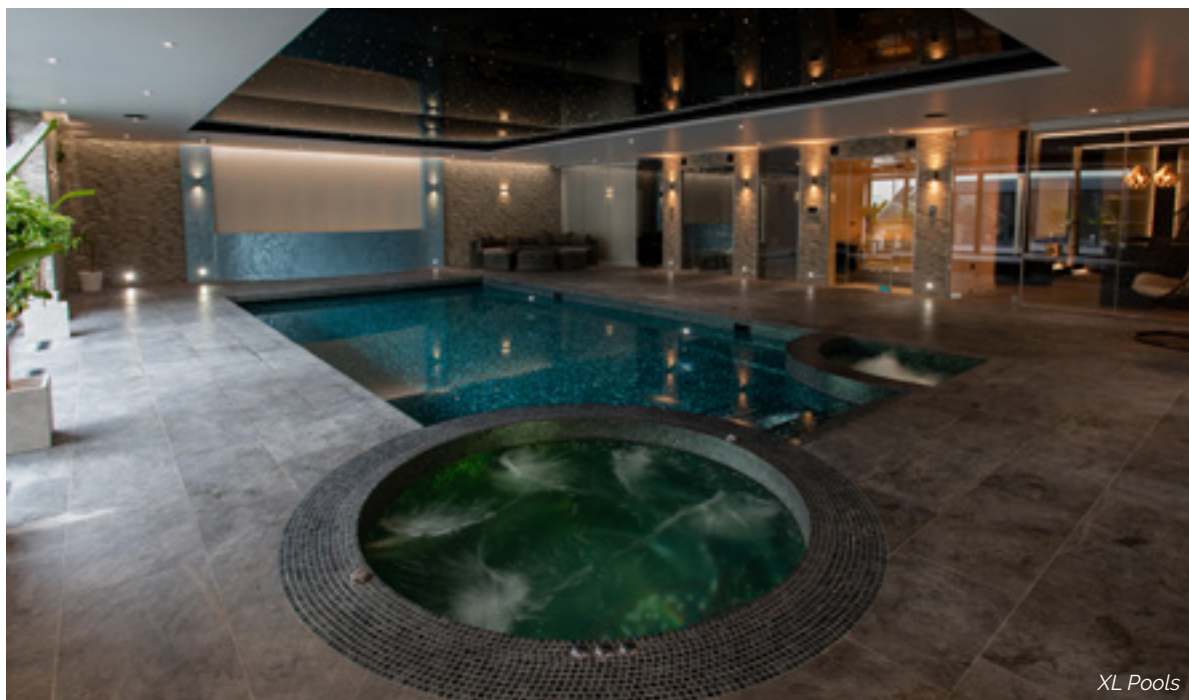


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TAP INTO SPATEX 2023

The UK's annual water leisure exhibition, **SPATEX 2023**, at the Coventry Building Society Arena, Tuesday 31 January to Thursday 2 February, brings life to water and water to life

From spas, wellness suites, swimming pools and steam rooms to saunas, water features, enclosures and all their ancillary equipment, **SPATEX 2023** is the one and only chance in the year to view the exciting world of water leisure under the convenience of one roof.

With over a hundred exhibiting companies, including all the leading manufacturers and suppliers from around the world, this is a must-attend event for all those involved in the design and construction of water leisure facilities, big or small, commercial or domestic. An unrivalled glittering showcase, SPATEX 2023 provides an opportunity to view and compare a host of new innovations in a fast-moving market.

Saving energy and sustainability are at the top of the agenda. From heat retention covers and LED lighting to air source heat pumps and super insulated one-piece pools, there is plenty to catch the eye. "We aim to bring energy saving into sharp focus and make it a forum for discussion and finding solutions," says SPATEX Organiser, Michele Bridle. "With education, the latest technological advances and careful management, there are effective ways to significantly reduce energy consumption and bills. It's this positive message that, with the help of our exhibitors

and experts, SPATEX will communicate to its visitors. Minimising energy usage is a consideration that needs to be factored in at the design stage which is why this show is of vital importance for architects." Energy saving will also feature in SPATEX's free-to-attend, double seminar programme, along with up-to-the-minute health and safety guidance and the design and build of commercial pools.



The ISPE (Institute of Swimming Pool Engineers), has curated a diverse workshop programme in Arena 1 and CPD points and certificates of attendance are issued to all attendees.

SPATEX is fortunate that many esteemed industry associations lend their much-valued support each year, such as BISHTA (British & Irish Spa & Hot Tub Association) and SPATA (Swimming Pool & Allied Trades Association). On the Tuesday evening of the show, the BSPF (the British Swimming Pool Federation) will be hosting the British Pool & Hot Tub Awards, showcasing the best examples of design, construction and installation. Photos of the winning projects will be displayed on stand A1 on the Wednesday and Thursday of the show, providing excellent design inspiration.

Please call in at the SPATEX Help Desk at the entrance to the exhibition hall with any queries and the team will point you in the right direction.

Register now for FREE and to receive the show's regular newsletters [spatex-2023.reg.buzz](https://www.spatex.co.uk)

**E: helen@spatex.co.uk
T: +44 (0) 1264 358558
www.spatex.co.uk**

SPATEX

THE POOL, SPA & WELLNESS SHOW

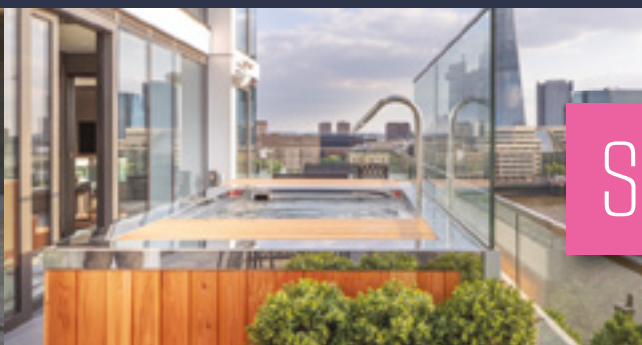
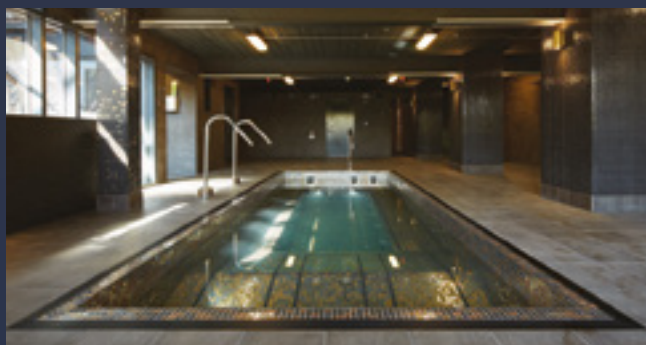
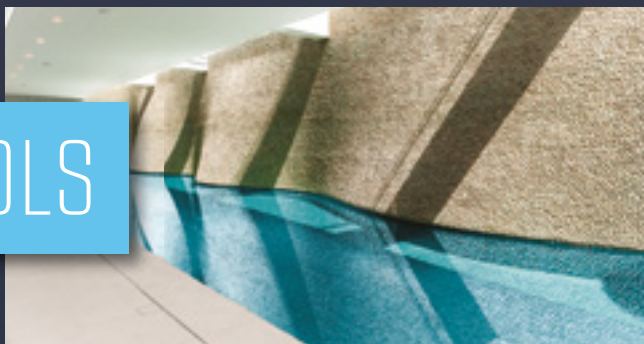
TUESDAY 31 JAN - THURSDAY 2 FEB 2023

FOR MORE INFORMATION AND
TO REGISTER FOR FREE VISIT:

WWW.SPATEX.CO.UK OR
CALL +44 (0)1264 358558

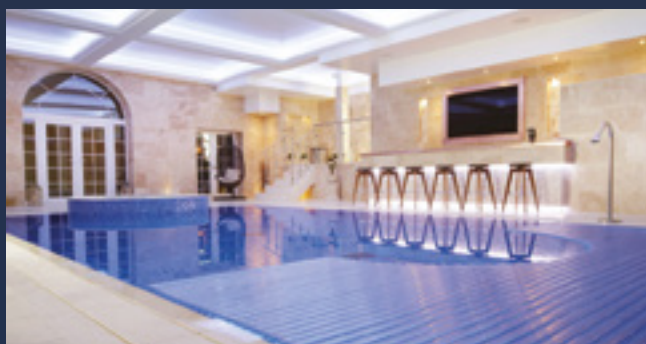
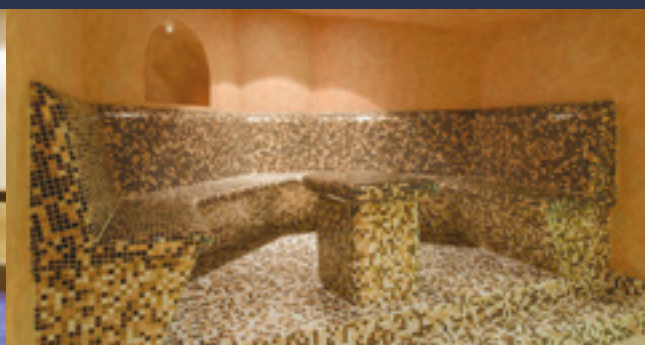
SPATEX represents all sectors of the water leisure industry from pools, spas, saunas to hydrotherapy, steam rooms and play equipment, in both the domestic and commercial arena.

POOLS



SPAS

WELLNESS



AND MORE

COVENTRY BUILDING SOCIETY ARENA • COVENTRY • UK

LEMON TREE HOUSE BY DECA ARCHITECTURE

Located on the Greek island of Antiparos, Lemon Tree House is a masterpiece in architecture and design. The private residence has a unique circular shape and protrudes off a hilltop offering stunning panoramic views of the Mediterranean ocean.

Designed by DECA Architecture, the house is reflective of their style as it not only blends in with its surroundings but it also stands as a well thought-out and striking piece of architecture.

The property is officially known as the Lemon Tree House, due to the inspiration behind the home. Lemon tree houses are vernacular agricultural buildings found in many Mediterranean islands to protect and help nurture lemon trees because they do not fare well in windy, salty conditions. These structures are tall cylindrical stone walls built around lemon trees, often with doors to allow people access to tend to the plants. A lemon tree sits at the centre of the

home with a stone wall surrounding it, an additional two concentric walls built out of stone surround this; while the lemon lives within the first wall, the homeowners reside within the outer two walls. The interior of the home works like a compass, allowing residents to glide through the space and enjoy stunning Mediterranean views from every angle. The dining room benefits from being in the same space as the lemon tree making it a focal point and a great place to entertain guests. On the opposite side of the dining area and lemon tree is the outdoor lounge area and infinity pool which again is another great area for the residents to enjoy and entertain guests. This reinforces the lemon tree as being at the centre of everyday life, bringing constant reminders to the inspiration and concept behind the design of the Lemon Tree House. A particularly interesting feature is the swimming pool, not only because of its infinity style which is a symbol of ultra-luxury and indulgence but also because of how it is curved in design to

follow the same architectural pattern of the home. The home also boasts six bedrooms and nine bathrooms along with an outdoor home theatre, and an outdoor barbeque area. With terraces, bi-fold doors and floor-to-ceiling windows, the home provides panoramic views of the island of Antiparos from all angles.

DECA have experimented extensively with using semi-subterranean designs and it has become a signature of theirs. DECA like to treat the earth like a building material, as though it is brick or stone. The Earth is malleable, well suited to sculpt landscapes and spaces, it is fertile and allows plants, trees and bushes to grow on buildings. Earth is also a bad conductor of heat; it insulates spaces naturally and effectively. As a result, DECA finds the prospect of embedding a building into the Earth a favourable choice. The back of the house is entirely carved into the hill, making the structure completely invisible from the back, where the entrance is located. The entrance is also sculpted into





the hill, a cavernous passage where you disappear into the ground before confronting the circular shading canopy and the incredible panoramic view.

The home is entirely made up of natural materials such as stone, bamboo and exposed concrete while also using muted colour palette of neutrals. These rich colours and textures have been well considered to fit in with the desert-like, natural terrain.

When thinking through the design of this home, the architect ensured the home was able to adapt to the ever-changing

wind conditions of the island. To do this the architect inserted large panels, made out of local bamboo, which slide around the concentric circles that define the house. They protect the people and the trees from the prevailing winds. The sliding canopies are complemented by a circular bamboo canopy that also provides shade from the sun.

On the whole, the Lemon Tree House is a remarkable home with an exceptional design that has clearly been carefully considered to suit its surroundings while also making ground-breaking waves in the world of

architecture and design. The concept behind the home also pays homage to the deep-rooted agricultural setting of the Mediterranean.

www.deca.gr

Lemon Tree House is for sale through Greece Sotheby's International Realty for a guide price of 7,500,000 EURO: [sothebysrealty.gr/properties/Lemon Tree House/](https://sothebysrealty.gr/properties/Lemon-Tree-House/)



MAPEI SOLUTIONS UTILISED IN ICONIC DEPARTMENT STORE

A stunning marble installation - spanning walls, floors and columns - has been completed at Harrods Shoe Heaven, by stoneCIRCLE, using a Mapei installation system. The prestigious project at the iconic London department store is part of an ongoing refurbishment by stoneCIRCLE. Marble finishes specified included a Crema Martel floor finish, featuring Grigio Stardust inlaid in interlocking geometric patterns and Nero Marquina borders. The floor joints were resin filled and the surface was ground to a honed finish after installation. Walls were clad with vein-cut Silver Travertine tiles, and fitted with Nero Marquina plinths. Silver Travertine was also used to clad columns, which were finished with delicate Nero Marquina detailing to match the existing finish in the original department. All fabrication was carried out at stoneCIRCLE's Basingstoke workshop. During installation, stoneCIRCLE used anti-fracture membrane, Mapetex System and flexible lightweight adhesive, Ultralite S1. The adhesive features a low dust, non-slip formulation and an extended open time - especially suited to a natural stone installation. It also contains over 30% of recycled material. stoneCIRCLE completed the installation with Mapei Ultracolor Plus colour reference 132 Beige 2000 - an anti-efflorescence, quick-setting and drying polymer-modified grout, with water-repellent DropEffect® and mould-resistant BioBlock® features - and mould-resistant silicone sealant, Mapesil LM.

www.mapei.co.uk | IG: @mapeiuk



VALUABLE STEEL WINDOW SURVEY FROM ASWS

With 60 years' experience as a specialist steel window refurbishment and replacement company, ASWS is offering a valuable survey service to architects, contractors and property owners. Known for their large and prestigious projects, part of ASWS's company ethos is the continual support and guidance for clients. ASWS has seen a rise in the number of landlords and architects employing the company's services to obtain detailed, expert guidance they can submit with tender information packages to help them secure accurate costs for their projects. With a greater emphasis on planning, a good façade scheme can go a long way for a contractor or architect in creating a good relationship with local planning authorities. Working mainly on listed buildings, ASWS begins a survey by gathering together as much information on the current state of the building in question. The survey and the information gained is collated to produce a comprehensive bill of quantities and a specification document for pricing purposes, which can be invaluable in the preparation of cost plans and project budgets.

For further information visit www.asws.co.uk or call 020 8665 5335

OPENING DOORS FOR GEZE UK

GEZE UK has demonstrated its commitment to supporting customers with technical advice and product guidance with the recent appointment of Ian Prince, who joins the renowned manufacturer of door and window control systems as Area Sales Manager for supply and fit of automatic doors covering the East Midlands and East of England. Ian will be focusing on building strong business relationships with customers supporting them by analysing their requirements and proposing technical solutions from the company's extensive range of automatic operators. With a strong track record of B2B sales and over 20 years' experience in account management and business development across 5 different industries Ian brings with him a wealth of knowledge to assist customers make the right choices for their projects. Ian has a BA (Hons) Degree in Marketing, is ADSA accredited and has won the Yellow Pages award for performance several times. Ian said: "I am delighted to join GEZE UK, they are an industry-leading company that offer a complete service of design, supply and fit of automatic doors." Andy Iredale, National Sales Manager for Automatic Doors and Window Technology added "It's great to have Ian join the team; he has vast experience across several sectors and will be a great asset to the company. He will be an important part of the company's continued growth."

For more information about GEZE UK's comprehensive range of automatic and manual door and window control products visit www.geze.co.uk



NEW APPROACH TO SELECTING PAINT COLOURS

Making major design decisions based on a small colour card chip can be difficult. Now, designers looking to specify an environmentally friendly paint will have access to a full set of 84 Claypaint swatches, comprising all 72 classic colours and the 12 Modern Country colours created in collaboration with Country Homes & Interiors. The full set of paint swatches comes in a beautiful, eco friendly display box to keep them safe.

Each swatch is a generous 16cms x 15cms and has been individually painted with real Earthborn Claypaint so you and your clients can see exactly what you're getting when you order.

Placing the swatches around your chosen space will show your clients how the light affects the colour at different times throughout the day. 100ml sample pots are of course also available.

Claypaint is a highly breathable paint with a luxurious ultra matt finish for interior walls and ceilings. It goes on like a dream, often requires fewer coats than conventional emulsions, is virtually VOC free and gives off no horrible smells.

Industry professionals need to register an interior designer trade account with Earthborn. A trade account gives access to trade pricing and some additional products. These full sets, priced at £80 RRP will not be available to consumers. Single colour swatches can also be ordered and come in a lovely protective wallet.

www.earthbornpaints.co.uk | IG: @earthbornpaints



FLOORING RANGE DISTILLS GIN BRAND IDENTITY

When Edinburgh Gin wanted to open its latest pop-up store in Edinburgh city centre, they tasked Exhibeo VM to design a store which reinforced the company's branding, whilst creating a lasting visual impact. Using a colourful, textured look to elevate the customer experience and entice shoppers into the store, Exhibeo VM specified Forbo Flooring Systems' adhesive-free Modul'up range in the Coral Terrazzo colourway, to bring the vision to life. Forbo's Modul'up range wasn't only chosen because of the contemporary colourways it is available in, but also because of how easy the installation is. Typically, flooring is the first port of call for most projects, but Forbo's Modul'up was installed last on this project, thanks to its quick and easy installation. Forbo's Modul'up range can also be easily removed and is immediately ready for recycling via Forbo's Back to the Floor scheme. The ease of removal also allows the flooring to be reused if needed, reducing waste further. And with no adhesive used, the substrate remains clean meaning the flooring can be replaced without time consuming and expensive subfloor preparation.

For more information about Forbo's Modul'up range, visit www.forbo-flooring.co.uk/fastfit or to learn more about the Forbo Escapes competition, visit www.forbo-flooring.co.uk/forboescapes





BUILDING SAFETY ACT

Sean Gamble, Lawyer Irwin Mitchell LLP, discusses what architects need to know about the **The Building Safety Act 2022**

The Building Safety Act 2022 ("the Act") received Royal Assent on 28 April and came into force on 28 June 2022, two and a half years after the Building Safety Bill was first announced in response to the Grenfell Tower disaster.

Amongst other matters, the Act creates a safety regime for the development and construction of residential buildings. Architects assume new obligations under this legislation, which also makes changes to the regulation of the profession. Although some provisions of the Act are already in force, most provisions relevant to this article require secondary legislation and will not take effect for another 6 to 12 months.

AMENDMENT OF THE ARCHITECTS ACT 1997

The business of Architects in the UK is regulated under the Architects Act 1997, section 1 of which establishes the Architects Registration Board (the "Board") and the Professional Conduct Committee. Sections 157 to 159 of the new Act make amendments to the Architects Act which give the Board greater powers and flexibility to ensure that individuals have the skills, knowledge, experience and behaviours required for a person to practise as an architect. The new Act also establishes an Appeal Committee.

The Board is developing its own programme for monitoring continuing professional development of architects. The proposed scheme is presently out for consultation and is expected to be introduced in 2024.

EXPANDED DUTIES IN RELATION TO HIGHER-RISK BUILDINGS

Significantly for architects, is the expansion of duties for 'dutyholders' during the design and construction phase of 'higher-risk buildings'. The Government recently sought feedback on its proposed building control regime.

The new dutyholders are expected to be modelled on the roles in the current CDM Regulations 2015. Architects who frequently act as Principal Designers will have increased site safety duties and a responsibility for the 'golden thread' of information relating to design decisions for fire and structural safety. This will likely require architects who act as Principal Designers to plan, manage and monitor design work to ensure it is compliant with building regulations.

BROADENED DUTY OF COMPETENCY FOR ALL

The Act provides that building regulations made under the Building Act 1984 may be amended to establish new duties of competence on those carrying out design or building work to ensure they have the relevant skills, knowledge, experience and behaviours. This will result in increased scrutiny on those who work in more general design roles.

FURTHER CONSIDERATIONS

The Act extends the limitation period for claims brought under the Defective Premises Act 1972, such that claims arising from historic works have a limitation period of 30 years from completion of those works and claims relating to

prospective works will have a limitation period of 15 years.

Accordingly, architects will need to review their document retention policies and their insurance arrangements to reflect these changes.

If you have any questions regarding the Act and how it may affect you or your practice, please get in touch with our Construction and Engineering team.

www.irwinmitchell.com



SEAN GAMBLE

Sean Gamble is a Lawyer (New Zealand Qualified) in the national Construction and Engineering team at Irwin Mitchell LLP based in the London office. He focuses on dispute resolution.

ARCHITECTURE COMPANY SPOTLIGHT

MAGAZINE

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DRU produces gas fires and wood stoves that combine contemporary design with the latest fireplace technology. They are available from specialist fireplace retailers throughout the UK and Europe. DRU fires and stoves have been specified by some of the UK's most prestigious architects and designers, and DRU is an accredited RIBA CPD provider.



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Our specialist design capability, underpinned by our industry leading focus on sustainability at every stage of production, has been key to our jaw-dropping collaborations with renowned designers including Tom Dixon and Christian Lacroix. Beautiful aesthetic, optimum quality, to fit any project in terms of scale and budget.



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Wilhelm Modersohn GmbH & Co. KG has been known in the field of stainless steel processing and the manufacture of fastening systems for masonry and concrete façades for over 50 years, primarily for the production of series and custom-made products made of high-strength and stainless steels. For years, the company also has been focusing on duplex steels, in particular the "Lean Duplex" steels (1.4062, 1.4162, 1.4362).



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W: www.ace-fabreeka.co.uk

The need for vibration and shock isolation and noise insulation can be found in most buildings. The Fabreeka fabric reinforced, elastomeric Pad product range can provide the ideal solution in concrete to concrete, concrete to steel and steel to steel applications. These include elevator isolation, stack vibration dampers to reduce vortex shedding on stacks or towers, fixed or expansion bearings for bridges and buildings, structural and non-structural thermal bridging solutions and foundation isolation.



Torc Pots
T: 01534 717104
E: nicole@torcpots.com
W: www.torcpots.com
IG: @torc_pots

Torc make everything by hand from their studio in the British Isles creating beautiful pots and planters to enhance any outdoor or indoor space. Working alongside a talented team of artisans this family run business specializes in textures, scale and bespoke design. The design side of the business is thriving with landscape architects and garden designers realizing just how much expertise this company has to offer with a wealth of experience in design and problem solving to bring to the table.



Profab Access
Riversdale House, Units C&D Riversdale
Road, Carlyon Road Industrial Estate,
Atherstone, Warwickshire, CV9 1FA
T: 01827 718 222
E: sales@profabaccess.com
W: www.profabaccess.com

Profab Access designs and manufactures non-fire rated and fire rated riser doors, wall and ceiling access panels and steel doors providing the perfect solution when easy access to concealed services within a building is required, without compromise to aesthetics or safety in the event of a fire. Our fire critical products are bi-directionally tested for fire integrity, and our bespoke designs meet any access project requirements, including EI60 specification products tested for integrity and insulation.



Schöck LTD
Staniford House, 4 Wedgwood Road,
Bicester, Oxfordshire, OX26 4UL
T: 01865 290 890
E: design-uk@schoeck.com
W: www.schoeck.com

The Schöck Isokorb range of thermal break modules controls thermal bridging and maintains minimum surface temperature obligations for structural connections involving balconies and other cantilever construction elements. The range is unique in being able to offer solutions between concrete-to-concrete, concrete-to-steel and steel-to-steel. All products are BBA approved and LABC registered, with thermal performance independently verified by the Oxford Brookes University and the Passivhaus Institute. All products are BBA approved, NHBC accepted and LABC registered.



Hanson Plywood Limited
Drakes Industrial Estate, Shay Lane,
Ovenden, West Yorkshire, HX3 6RL
T: 01422 330 444
F: 01422 330 706
E: panels@hanson-plywood.co.uk
W: www.hanson-plywood.co.uk

Based in Halifax, West Yorkshire, Hanson Plywood specialise in the import, storage and distribution of wood based panel products throughout the UK. We pride ourselves on our technical knowledge and customer service, with dedicated staff assisting with the selection and specification of products for individual projects and jobs. The company strives to make life easy for architects, designers and specifiers by presenting products with clear and easily understandable performance criteria. Our aim is to be instructive and helpful to our customers, whilst also being innovative and progressive in our services.



AGEING & DESIGN

Matthias Hollwich, Founder, **HWKN Architecture**, discusses how designing homes that appeal and cater to all generations can positively impact the conversation about ageing

I've always been passionate about 'ageing.' While it is something we do all life long, at some point in our lives ageing can start getting harder, and it is not a subject that gets nearly enough attention in Western society.

Loss of social connection, incapacitating illness, mobility challenges sometimes come as a surprise. Doing business as usual has become a challenge. Though we could have predicted it, most people feel like it all happens without warning. The trick is, we have to deal with aging as early as possible, be mindful, and prepare for the worst, while aiming for the best. A few years ago, I wrote a book, 'New Aging - live smarter now to live better forever' (Penguin), where I outlined a manual for better aging with many new ideas for people to implement easily into their own lives. I have also started a new venture designing projects that cater to both an older generation and others, bringing generations together. We call it FLX LIVE - Home of Pioneers (Stay tuned for more). In addition, I am on the Board of Stonewall CDC, New York's first, elder-friendly, LGBTQ+ community. My book on ageing is being adapted into a TV series tentatively titled 'An Architect's Eye for the Old Guy.'

In 'New Aging' I investigate many areas of our lives where I argue we need to adapt. No matter how old we currently are. They start with developing a new conception of ageing, one which imagines a productive, socially-engaged future. I use the phrase 'Never Retire' to describe that attitude. We have to learn to love ageing, not be scared of it, nor have this period of our lives associated with dread. Changing one's approach to later life further involves upping our commitment to health, family, and daily socializing. As an architect, I want to manifest such changes in designing our living spaces. I am very enthused about ageing in place – i.e. re-designing one's home to become a 'future home.' In practice this may mean changing the spatial alignments in the home – for instance, ensuring one can live happily on one floor— I call it "creating a level playing field," opening the house to nature (important for inspiration for those having perhaps a more sedentary life), adding bedrooms and bathrooms for family visitors, tailoring computer spaces, and streamlining bathrooms to make them comfortable and easily accessible. Further I suggest designing communal areas such as living and dining rooms to ensure they can readily accommodate

visitors and family. Socializing is critical to avoiding loneliness or depression. In and of themselves these may appear to be small adjustments but when envisioned as part of planning a life in the future, such design changes to your home are significant. I am very enthusiastic about intergenerational housing. Socializing across generations has huge benefits. It keeps older folks on their toes and a whole dash of wisdom never went astray with Gen's X and Z. I conceive of apartment complexes where the needs of both are designed in – quiet for the ageing perhaps, more space for youth – yet connected with a communal room in between, or by having large socializing spaces available to all. This is a crucial design challenge architects have to take on. Key to all these design changes is infusing both housing and community with a new aesthetic: future homes must look exciting. We all need to WANT them. Beauty and functionality need to go hand in hand. By designing homes and living spaces we all want – that cater to the life changes – architects can change how society thinks about the ageing process itself. Architecture can lead the way.

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